



PERSPECTIVES

The Hormuz Shock: No Strait line for US exit

March 2026



Contents

Authors:

Deepak Puri CFA®
Chief Investment Officer
Americas

Wolf Kisker
Senior Investment Strategist

Jon Byrne
Investment Strategist

Shreenidhi Jayaram
Investment Strategist

1 Iran crisis: The shock reshaping global markets

2 US macro in focus

3 Asset class implications

4 Conclusion

Please use the QR code
to access a selection of other
Deutsche Bank CIO reports
www.wealth.db.com.





1

Iran crisis: The shock reshaping global markets

The Iran-Hormuz crisis has become a defining macro shock, driving up geopolitical risk premia and reshaping cross-asset positioning. What began as targeted strikes has escalated into a multi-front confrontation involving the US, Israel, and Iranian-aligned groups, pushing markets into a regime where energy volatility and supply-chain fragility dominate risk assessment.

Disruptions around the Strait of Hormuz, including mine-laying attempts and naval skirmishes, have raised the global energy risk premium and compromised crude oil and LNG flows. Oil volatility, pressured Gulf assets, sharp swings in global equities, and FX now reflect shifting expectations around supply stress, inflation sensitivity, and escalation risks

The US is insulated from disruptions around the Strait on a relative basis to other regions (Europe & Asia), but it is not immune. Although the US is a net exporter of energy – unlike Europe & Asia – it is important to remember that “net exporter” does not mean “energy self-sufficient”. At its core, the problem for the US is a crude quality mismatch rather than the volume issue that is weighing on both Asia and Europe. US dependence on Persian Gulf energy has declined significantly over the past three decades, falling from roughly 25% of total imports in the late 1990s to roughly 8% today, whereas the reliance on Canadian supply has quietly become far more pronounced. Canada now accounts for roughly 60% of US crude and oil product imports. This shift matters because US shale production is overwhelmingly light/sweet, whereas a large portion of US refining capacity was built to process heavier/sour grades. As a result, incremental US light crude is often exported, even as refiners continue to import foreign barrels – primarily from Canada – to operate. The US thus appears to be energy independent and a net exporter in aggregate terms, but remains structurally dependent on foreign oil when viewed through the lens of refinery feedstock quality rather than headline volumes. In a global market such as energy, a rising tide lifts all boats, though. With Gulf production impaired, foreign buyers will look to source crude from elsewhere, driving up demand and ultimately raising prices globally. This in turn is driving inflation expectations higher and pressuring the price stability component of the Fed’s dual mandate. This complicates the situation given that the maximum employment component of its mandate is simultaneously being called into question amid lower economic momentum.

Outside the US, spillovers are more acute. Asia faces the heaviest energy-security strain, while Europe navigates renewed fragility just as post-crisis inflation is normalising. Gulf governments must manage higher investment risk premiums alongside regional stability concerns. Meanwhile, uneven Western coordination, and more assertive Chinese and Russian positioning, adds further uncertainty to energy-market outcomes.

For investors, the crisis reinforces a tilt toward more defensive and selective allocation. It accelerates existing trends: greater emphasis on supply-chain resilience, a higher embedded geopolitical risk premium, and a portfolio environment where shocks are more frequent, more global, and less diversifiable.

As geopolitical risk premia reset, the focus is shifting toward how these pressures interact with the underlying trajectory of the US economy.



2

US macro in focus

WTI Crude Oil hovering near USD100/bbl has firmed the inflation outlook and pushed markets to defer expectations for Fed easing, with rate cuts now largely priced only after the September FOMC. Energy-driven price pressures are emerging just as labour-market cooling remains gradual, complicating the Fed's dual mandate of price stability and maximum employment. Strategic Petroleum Reserve releases, including the IEA's coordinated 400 million barrels action, helped dampen volatility, but left the underlying risk premium intact, keeping crude elevated and inflation expectations sensitive to further Hormuz-related disruptions.

Status quo before the crisis

The US economy was slowing but still growing at the beginning of 2026. Real GDP for Q4 2025 was recently revised down to 0.7% from the initial reading of 1.4% QoQ on a seasonally adjusted annual rate (SAAR) basis. There were clearly government shutdown effects in Q4 at play here given that government spending reduced the headline figure by a full percentage point. Still, this was a sharp downtick from the third quarter's 4.4% reading. Tracking estimates for Q1 2026, using the Atlanta Fed's GDPNOW estimate, show a rebound in growth to 2.7% QoQ on a SAAR basis, i.e. still growing but more slowly. In the labour market, the "great resignation" continued its transition to "not hiring but not firing" as initial jobless claims remain rangebound in the 200-300k range with continuing jobless claims actually drifting lower at the start the year. However, recent weakness in nonfarm payrolls (with last month's -92k for instance) in addition to JOLTS rolling over has raised concerns about the health of the labour market. All of this echoes the same uniform message; the labour market is cooling, and cracks were beginning to emerge at the start of the year. This loss of momentum in the labour market and economic growth more broadly was reflected in the outlook for monetary policy with market pricing for some 2.4 cuts priced in for the Fed by the end of 2026 prior to the Iran conflict.

Current state of the conflict

Global energy flows have been disrupted, with the Strait of Hormuz essentially closed. For context, pre-conflict, the 30-day average vessel count from east-to-west through the Strait of Hormuz was roughly 47 per day. Since February 27, the average has been about 2.

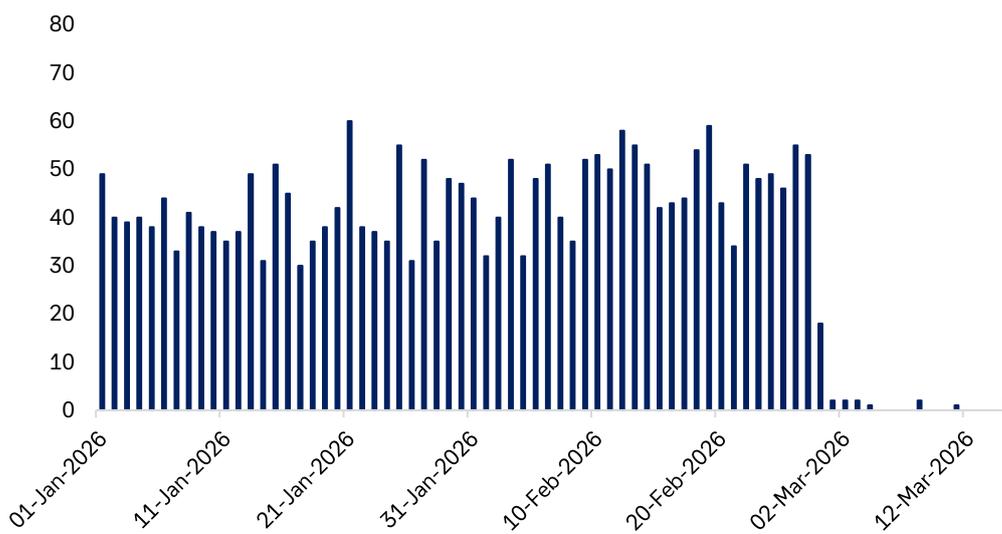
The Strait is a crucial chokepoint for the global energy trade, with roughly 27% of the world's global maritime oil trade flowing through it. Any prolonged disruption to these energy flows could hamper the global economy and cripple global supply chains. We are already seeing signs of rationing with select Asian countries declaring 4-day working weeks to conserve fuel.

In response to the disruption of the Strait of Hormuz, governments have responded with a two-track policy approach. Actions that are already in place include a record-breaking coordinated release of strategic oil reserves, led by the US, alongside fuel tax cuts and consumer subsidies in several countries to limit inflation spillovers. There have also been producer adjustments, with Saudi Arabia rerouting some exports via existing pipeline infrastructure. By contrast, several high-profile measures remain prospective rather than operational, most notably US Navy tanker escorts, which have been publicly discussed but have not yet been implemented, with no confirmed escorted transits through the Strait. As a result, the actions taken to date have helped ease near-term market stress and bought some time, but the measures most directly capable of restoring physical shipping flows remain conditional, most acutely guaranteeing safe passage through the Strait, leaving energy markets highly sensitive to the evolving security situation.



One thing that has become apparent, though, is that the policy responses thus far, that have actually been implemented, are oil centric (SPR releases). Perhaps this is emblematic of the muscle memory of policymakers with regard to their energy market crisis playbook. By contrast, there is no equivalent strategic reserve or coordinated policy response for LNG, refined products, or fertilisers, even though disruptions in those markets may prove just as economically consequential with downstream impacts on global supply chains.

Figure 1: Vessel count: Strait of Hormuz (East to West)



Source: Bloomberg, Deutsche Bank AG. Data as of March 18, 2026.

Figure 2: Volume of crude oil, condensate, and petroleum products transported through the Strait of Hormuz (2020–1Q25) (million barrels per day)

	2020	2021	2022	2023	2024	1Q25
Total oil flows through Strait of Hormuz	19.1	19.4	21.4	21.4	20.3	20.1
Crude oil and condensate	14.3	14.4	16.0	15.5	14.3	14.2
Petroleum products	4.8	5.0	5.5	5.8	5.9	5.9
World maritime oil trade	71.4	72.6	74.3	76.0	75.5	75.7
% of World maritime oil trade flowing through Strait of Hormuz	27%	27%	29%	28%	27%	27%
World total petroleum and other liquids consumption	91.0	96.6	99.5	101.8	102.7	102.1
LNG flows through Strait of Hormuz (billion cubic feet per day)	10.7	10.7	11.0	10.5	10.3	11.5

Source: US Energy Information Administration, Short-Term Energy Outlook, June 2025, and US Energy Information Administration analysis based on Vortexa tanker tracking.

In Europe, Middle East and Africa as well as in Asia Pacific this material is considered marketing material, but this is not the case in the US. No assurance can be given that any forecast or target can be achieved. Forecasts are based on assumptions, estimates, opinions and hypothetical models which may prove to be incorrect. Past performance is not indicative of future returns. Performance refers to a nominal value based on price gains/losses and does not take into account inflation. Inflation will have a negative impact on the purchasing power of this nominal monetary value. Depending on the current level of inflation, this may lead to a real loss in value, even if the nominal performance of the investment is positive. Investments come with risk. The value of an investment can fall as well as rise and you might not get back the amount originally invested at any point in time. Your capital may be at risk. This document was produced in March 2026.



Where we may be heading

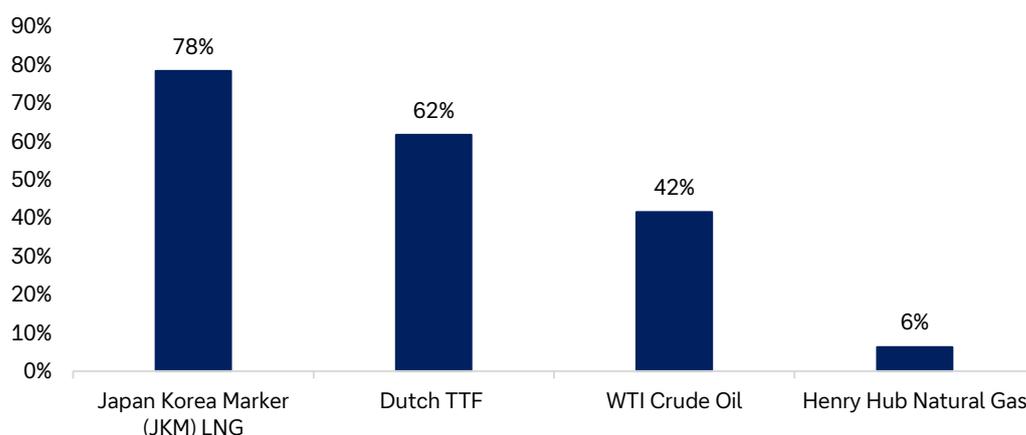
With all of that said, the world looks a lot different today than it did prior to the Iran conflict on February 27, let alone at the start of the year. Unsurprisingly, there has been a parallel shift higher in the broader energy complex because of this ongoing disruption with acute stress on LNG, European natural gas, and refined products more broadly.

Now, one could argue that US consumers are equipped to cope with this energy price shock given they managed to deal with the energy price shock associated with the Russian invasion of Ukraine in February 2022.

However, the dynamics for both consumers and the labour market are vastly different today to those in February 2022. Real income growth is on the verge of turning negative ex transfer payments, leaving households with far less of a buffer to absorb higher energy costs. At the same time, slack has clearly emerged in the labour market, with job openings having nearly halved from their peak and a negligible amount of net employment growth. Lastly, retail sales have moderated immensely from their stimulus-driven, post-pandemic peaks with YoY growth running below headline inflation.

Taken together, this suggests that while US consumers were able to adapt to the 2022 energy shock from a position of strength, today's shock is hitting an economy with less income momentum, weaker labour dynamics, and less capacity to absorb another sustained rise in energy prices.

Figure 3: Price performance since the onset of the Iran conflict



Source: Bloomberg, Deutsche Bank AG. Data as of March 17, 2026.

Figure 4: Economic Indicators

	Feb'22	Today
Retail Sales YoY	15.3%	2.1%
Change in Nonfarm Payrolls (6 Month Average, Thousands)	620 K	13 K
JOLTS (Millions)	11.7 M	6.9 M
Real Income Growth ex-Transfer Payments YoY	2.5%	0.6%

Source: BEA, FRED, Deutsche Bank AG. Data as of March 16, 2026. or Most Recent Data Release.

In Europe, Middle East and Africa as well as in Asia Pacific this material is considered marketing material, but this is not the case in the US. No assurance can be given that any forecast or target can be achieved. Forecasts are based on assumptions, estimates, opinions and hypothetical models which may prove to be incorrect. Past performance is not indicative of future returns. Performance refers to a nominal value based on price gains/losses and does not take into account inflation. Inflation will have a negative impact on the purchasing power of this nominal monetary value. Depending on the current level of inflation, this may lead to a real loss in value, even if the nominal performance of the investment is positive. Investments come with risk. The value of an investment can fall as well as rise and you might not get back the amount originally invested at any point in time. Your capital may be at risk. This document was produced in March 2026.



3

Asset class implications

Fixed Income

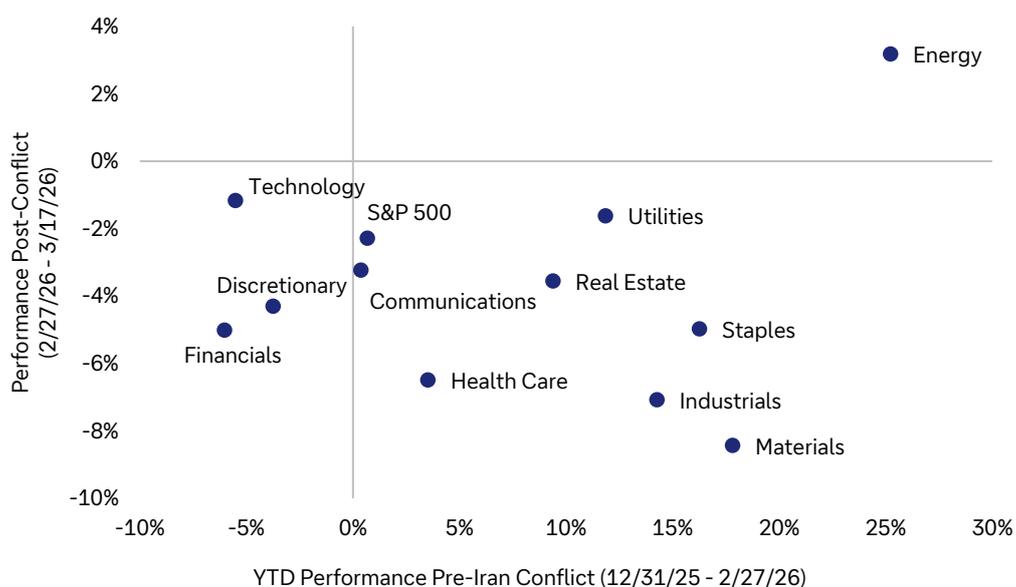
The Iran conflict has shifted markets decisively back toward inflation risk, pushing long-end yields higher after a strong start to the year. Before the escalation, Treasuries had rallied meaningfully, with the 10-year falling below 4% and the 2-year reaching fresh cycle lows as investors grew confident of a disinflation-led easing cycle. That momentum has unwound though with US 10- and 30-year yields rising roughly 30bps since late February, driven by a sharp repricing of near-term inflation expectations. One-year breakevens have jumped from roughly 2.3% at the start of the year to +5.0%, reflecting heightened sensitivity to energy-related price shocks.

Policy expectations have adjusted accordingly. The Fed Funds futures market had priced in some 2.5 cuts by year-end 2026, but now assigns no cuts. The 2-year yield are trading above the upper bound of the Fed Funds rate as well, the first time it has done so since the regional banking crisis in 2023. This shift comes at an inopportune moment for interest-sensitive sectors of the real economy, particularly housing, as the spring selling season begins with diminished prospects for rate relief. In aggregate, rates markets are signalling a clear message that the conflict is amplifying inflation concerns into a period of already moderating growth. Ultimately, this may leave central banks with far less flexibility to pivot toward supporting activity vis-à-vis more accommodative monetary policy.

Equities

Equity performance in the early part of the year had been consistent with the pre-conflict macro backdrop: moderating inflation, falling yields, and late-cycle defensiveness. Real Estate, Health Care, Consumer Staples, Utilities, and late-cycle cyclicals such as Industrials, Materials, and Energy outperformed on a relative basis, while more pro-cyclical areas like Financials, Consumer Discretionary, and Technology lagged.

Figure 5: S&P 500 GICS sector performance (pre- & post-Iran conflict)



Source: FactSet, Total Return Data, Deutsche Bank AG. Data as of March 17, 2026.

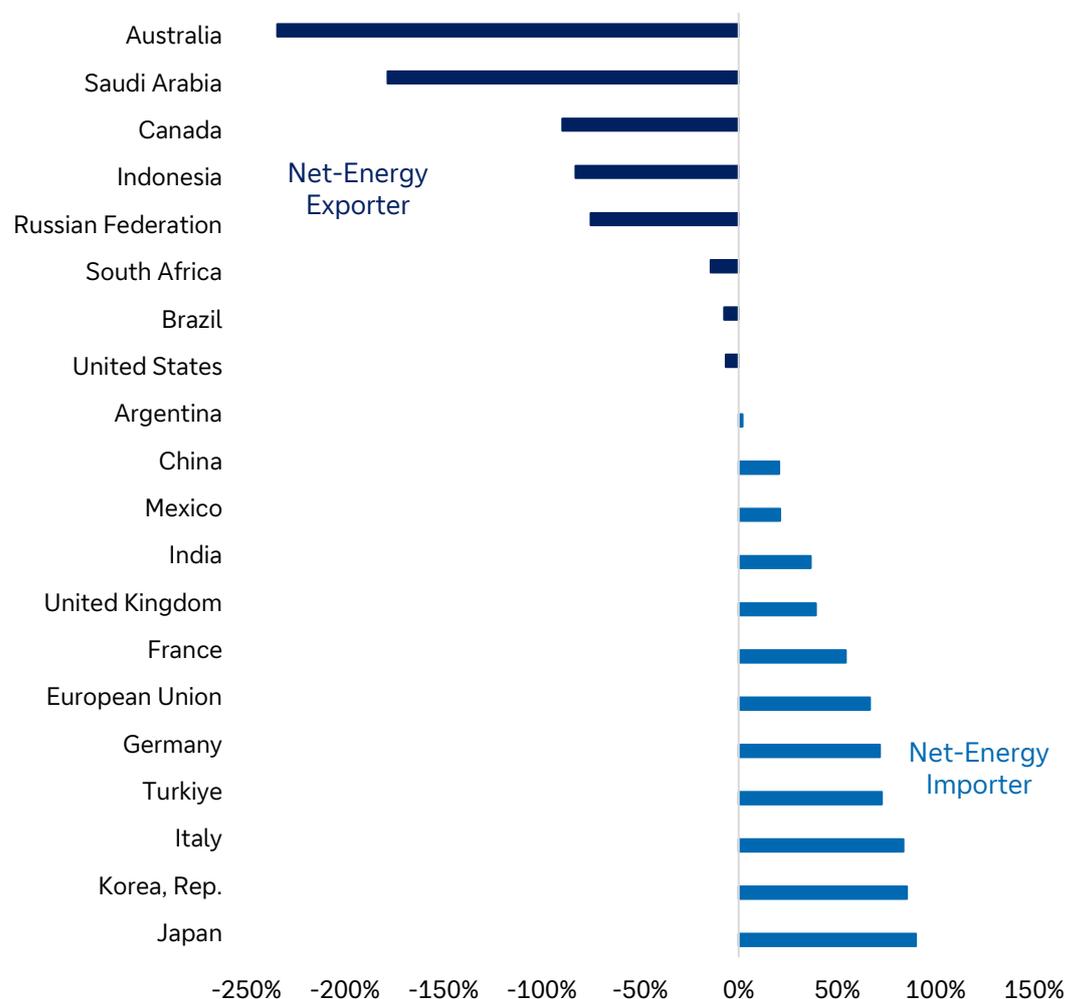
In Europe, Middle East and Africa as well as in Asia Pacific this material is considered marketing material, but this is not the case in the US. No assurance can be given that any forecast or target can be achieved. Forecasts are based on assumptions, estimates, opinions and hypothetical models which may prove to be incorrect. Past performance is not indicative of future returns. Performance refers to a nominal value based on price gains/losses and does not take into account inflation. Inflation will have a negative impact on the purchasing power of this nominal monetary value. Depending on the current level of inflation, this may lead to a real loss in value, even if the nominal performance of the investment is positive. Investments come with risk. The value of an investment can fall as well as rise and you might not get back the amount originally invested at any point in time. Your capital may be at risk. This document was produced in March 2026.



Post-conflict dynamics have realigned market leadership in ways generally consistent with a stagflation-tilted risk environment. Energy has become the standout performer, supported by supply-disruption premiums and elevated crude prices. Technology and Utilities have also participated in the rebound, reflecting a mix of quality preferences associated with a high degree of earnings visibility. The relative underperformance of some classic defensives such as Staples and Health Care is harder to reconcile with the macro backdrop, though it may reflect positioning overhangs and stretched valuations heading into the year.

Geographic dispersion has been pronounced. Markets closest to the conflict or most exposed to energy imports have faced the sharpest declines. The S&P 500's move (of roughly -2.3%) stands in stark contrast to those of the MSCI South Korea (-12.9%), MSCI Japan (-9.5%), and MSCI Germany (-8.4%) since the onset of the conflict (February 27–March 17, 2026). The US's status as a net energy exporter has been a buffer, insulating it from far more supply constrained regions like Asia and Europe.

Figure 6: G20 Countries: Net energy Imports as a % of energy use



Source: World Bank Group, IEA, Deutsche Bank AG. Data as of December 31, 2022.

In Europe, Middle East and Africa as well as in Asia Pacific this material is considered marketing material, but this is not the case in the US. No assurance can be given that any forecast or target can be achieved. Forecasts are based on assumptions, estimates, opinions and hypothetical models which may prove to be incorrect. Past performance is not indicative of future returns. Performance refers to a nominal value based on price gains/losses and does not take into account inflation. Inflation will have a negative impact on the purchasing power of this nominal monetary value. Depending on the current level of inflation, this may lead to a real loss in value, even if the nominal performance of the investment is positive. Investments come with risk. The value of an investment can fall as well as rise and you might not get back the amount originally invested at any point in time. Your capital may be at risk. This document was produced in March 2026.



US sectors in focus

The sector response reflects three overlapping forces: energy-price transmission, inflation sensitivity, and proximity to the conflict.

Energy

The best performer post-conflict, driven by elevated crude, an expanded risk premium, and global supply uncertainty.

Outlook: Support remains firm in the near term as supply-risk premiums stay embedded. Medium-term returns should moderate as prices stabilise, but balance-sheet strength and cash-flow durability keep the sector structurally resilient. Within the sector, Upstream, integrated oils and refiners stand out given stronger cash-flow leverage to higher and more volatile oil prices amid supply disruptions.

Technology

Despite its pro-cyclical nature, Tech has benefited from continued demand for high-quality earnings streams, particularly in the semiconductor and semiconductor-adjacent sub-industry groups. The sector's rebound aligns more with the "quality growth amid uncertainty" theme than with cyclical optimism.

Outlook: Short-term leadership likely continues as markets favour earnings visibility. Over the medium term, performance will hinge on the trajectory of corporate capex, AI monetisation, and the durability of profit growth rather than geopolitical rotations. Overall, AI infrastructure, hyperscalers and defence and cybersecurity-based tech remain supported by secular demand trends that are relatively insulated from energy-price volatility.

Utilities

Supported by defensive positioning, stable cash flows, and partial energy-price pass-through characteristics. Performance reflects the bid for stability rather than growth rotation.

Outlook: The defensive bid should hold while macro uncertainty remains elevated. Over time, regulated earnings bring stability, but sector upside stays capped unless long end rates meaningfully ease.

Defensives (Staples & Health Care)

The notable lack of follow-through remains a puzzling divergence relative to macro signals. Positioning saturation, valuation constraints, and idiosyncratic earnings issues may be contributing to the weaker performance despite a fundamentally supportive environment for safe haven sectors.

Outlook: Short-term performance may remain constrained by stretched positioning. Longer term, the sector's earnings resilience argues for a gradual re-rating as volatility broadens, and investors rotate back into stability. Pricing-power staples and large pharmaceuticals as well as managed care tend to hold up better given lower energy sensitivity and steady demand profiles.

Cyclicals (Industrials, Materials)

Held up reasonably well pre-conflict as late-cycle segments benefited from stable activity. Their resilience may weaken if higher energy costs begin to tighten margins and dampen global growth.

Outlook: Margins face near-term pressure from elevated input costs. Medium-to-long term prospects depend on whether global growth can absorb this energy price shock. Within industrials, defense, aerospace and infrastructure could potentially benefit from geopolitical and reshoring spending, while fertilisers and select chemicals in materials gain from improved pricing dynamics.



Financials & Consumer Discretionary

Remain the most challenged. Higher yields in tandem with market pricing shifting towards reduced rate-cut expectations are tightening financial conditions and may ultimately put pressure on consumers as real incomes stagnate. Housing-linked segments are particularly vulnerable given the uptick in rates too.

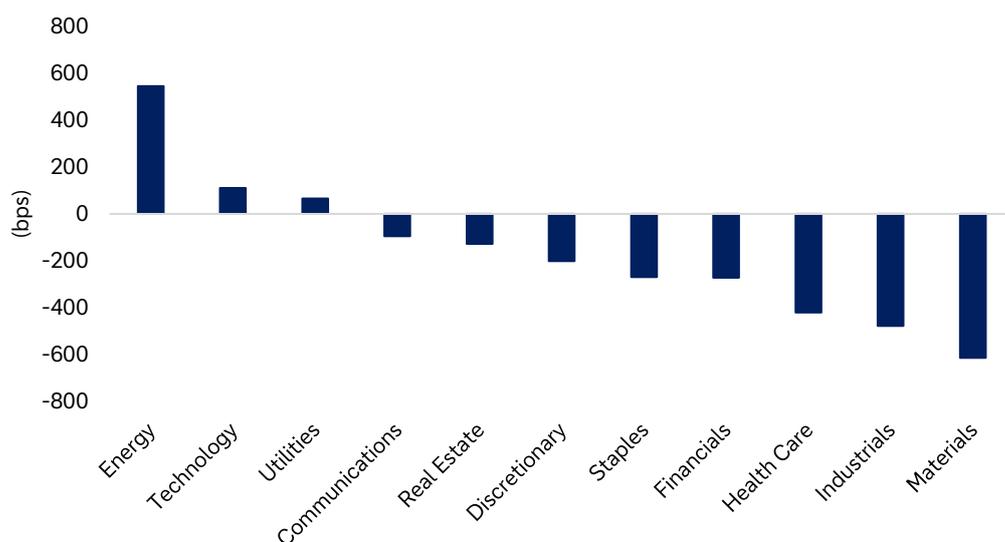
Outlook: Headwinds persist in the near term as tighter financial conditions; rising concerns over the Private Credit market, and weak real-income growth dominate the narrative. Longer-term recovery hinges on rate stabilisation and a rebound in household purchasing power.

Alternatives & Thematic Assets

The overlapping geopolitical shocks, financial-system stress, and technological transitions are shifting the long-term architecture of portfolio construction. This could support:

- Gold, benefiting from hedging demand amid geopolitical instability and rising inflation.
- Real assets (infrastructure, pipelines, storage) given their role in supply-chain redundancy.
- Long/short hedge-fund strategies, which gain from elevated dispersion across sectors and regions.

Figure 7: Performance relative to the S&P 500 since conflict began on February 27, 2026



Source: FactSet, Total Return Data, Deutsche Bank AG. Data as of March 17, 2026.



4

Conclusion

The Iran–Hormuz conflict further complicates an already challenging macro backdrop, characterised by persistent energy volatility and a fluid global growth backdrop. Markets are gradually adjusting to the likelihood of a longer shock window, with oil-linked volatility and tighter financial conditions, and emerging private credit fragility shaping cross-asset behaviour. Together, these dynamics suggest an environment with somewhat firmer underlying price pressures, increasing sensitivity to energy costs and second-round effects.

The Fed remains firmly in data-dependent mode, with elevated uncertainty reinforcing a gradual and cautious approach to any policy adjustment. Our base case continues to anticipate two additional rate cuts by March 2027, with meaningful easing unlikely until clearer progress on inflation emerges.

Against this backdrop, asset allocation is shifting toward resilience rather than optimisation. The combination of war-related disruptions, supply-chain reconfiguration, and de-globalization trends supports more diversified exposures that hedge macro-regime risk. That approach aligns with the evolving investment landscape, where the disruption of long-standing supply chains and rising geopolitical uncertainty require multi-regional redundancy and broader risk buffers.

Cross-asset signals remain consistent. Energy continues to outperform as risk premia stays elevated. Select Industrials tied to defence, reshoring, and supply-chain diversification gain structural support, while global cyclicals linked to Asian energy demand face the sharpest pressure. Rate-sensitive and fuel-intensive segments lag in an environment where inflation concerns outweigh safe-haven flows. Meanwhile, broader US equities show resilience despite volatility, supported by domestic energy insulation, strong institutional positioning, and durable AI-driven capex even as sector leadership rotates more frequently.

For the US, the macro trajectory is softer but not destabilised: inflation runs higher than expected, growth is modestly weaker, and the Fed's easing path shifts further out. Europe confronts a harder energy-inflation trade-off, and Asia bears the most acute exposure to supply risks. Globally, the result is a more fractured return pattern across regions and sectors, with persistent dispersion likely to remain a defining feature of the investment landscape.

In this environment, it is important that investors avoid reacting to short-term volatility and instead stay aligned with long-term portfolio expectations and individual risk profiles. Markets will continue to adjust as the conflict evolves, but portfolios built around diversification, risk budgeting, and resilience, rather than tactical swings, remain best positioned to navigate a potentially prolonged period of geopolitical and macro uncertainty.



Glossary

The **Consumer Price index (CPI)** measures the price of a basket of products and services that is based on the typical consumption of a private household.

The **International Monetary Fund (IMF)** was founded in 1994, includes 189 countries and works to promote international monetary cooperation, exchange rate stability and economic development more broadly.

LNG refers to Liquefied Natural Gas (mostly methane) and **LPG** refers to Liquefied Petroleum Gas (mainly propane and butane). LPG is a by-product of crude oil refining.

Producer price inflation (PPI) measures the change in prices received by producers (e.g. firms) for their output.

Real GDP (Gross Domestic Product) is the inflation-adjusted value of all final goods and services produced within a country in a given year, measured at constant prices.

Real income is an individual's or nation's earnings adjusted for inflation, representing actual purchasing power rather than just the nominal amount of money received.

Reflation can either be used to refer to an increase in the level of price indices, or to policy designed to boost the level of economic activity.

Stagflation is an economic condition characterized by the simultaneous occurrence of slow or stagnant economic growth, high unemployment, and high inflation.

USD is the currency code for the US dollar.



Appendix

Historical performance

	19.3.2021 – 19.3.2022	19.3.2022 – 19.3.2023	19.3.2023 – 19.3.2024	19.3.2024 – 19.3.2025	19.3.2025 – 19.3.2026
S&P 500	14.1%	-12.2%	32.2%	9.6%	16.4%
NASDAQ	5.1%	-16.3%	39.0%	9.8%	24.4%
MSCI South Korea (USD)	-19.9%	-18.4%	10.8%	-12.8%	144.7%
MSCI Germany (USD)	-12.8%	-7.8%	18.2%	25.7%	0.7%
MSCI Japan (USD)	-12.6%	-8.3%	25.1%	1.1%	22.4%
10 Year U.S. Treasury	-5.0%	-7.1%	-4.9%	0.8%	0.2%
2 Year U.S. Treasury	-3.5%	-2.6%	-1.5%	1.3%	0.2%
Gold (USD/oz)	10.8%	2.3%	9.4%	40.8%	51.4%
WTI Spot (USD/bbl)	67.8%	-35.3%	24.0%	-19.1%	42.8%

Source: Deutsche Bank AG, FactSet, Data as of March 19, 2026.

In Europe, Middle East and Africa as well as in Asia Pacific this material is considered marketing material, but this is not the case in the US. No assurance can be given that any forecast or target can be achieved. Forecasts are based on assumptions, estimates, opinions and hypothetical models which may prove to be incorrect. Past performance is not indicative of future returns. Performance refers to a nominal value based on price gains/losses and does not take into account inflation. Inflation will have a negative impact on the purchasing power of this nominal monetary value. Depending on the current level of inflation, this may lead to a real loss in value, even if the nominal performance of the investment is positive. Investments come with risk. The value of an investment can fall as well as rise and you might not get back the amount originally invested at any point in time. Your capital may be at risk. This document was produced in March 2026.



Important note

General

This document may not be distributed in Canada or Japan. This document is being circulated in good faith by Deutsche Bank Aktiengesellschaft, its branches (as permitted in any relevant jurisdiction), affiliated companies and its officers and employees (collectively, "Deutsche Bank").

This document is for your information only and is not intended as an offer, or recommendation or solicitation of an offer to buy or sell any investment, security, financial instrument or other specific product, to conclude a transaction, or to provide any investment service or investment advice, or to provide any research, investment research or investment recommendation, in any jurisdiction. The information contained herein does not replace advice tailored to the individual circumstances of the investor.

All materials in this document are meant to be reviewed in their entirety.

If a court of competent jurisdiction deems any provision of this disclaimer unenforceable, the remaining provisions will remain in full force and effect. This document has been prepared as a general market commentary without consideration of the investment needs, objectives or financial circumstances of any particular investor. Investments are subject to market risks which derive from the instrument or are specific to the instrument or attached to the particular issuer. Should such risks materialise, investors may incur losses, including (without limitation) a total loss of the invested capital. The value of investments can fall as well as rise and an investor may not recover the amount originally invested at any point in time. This document does not identify all the risks (direct or indirect) or other considerations which may be material to an investor when making an investment decision.

This document and all information included herein are provided "as is", "as available" and no representation or warranty of any kind, express, implied or statutory, is made by Deutsche Bank regarding any statement or information contained herein or issued in conjunction with this document. To the extent permissible under applicable laws and regulations, Deutsche Bank makes no representation as to the profitability of any financial instrument or economic measure. All opinions, market prices, estimates, forward-looking statements, hypothetical statements, forecast returns or other opinions leading to financial conclusions contained herein reflect Deutsche Bank's subjective judgment as of the date of this document. Without limitation, Deutsche Bank does not warrant the accuracy, adequacy, completeness, reliability, timeliness or availability of this document or any information contained herein and expressly disclaims liability for errors or omissions herein (if any). Forward-looking statements involve significant elements of subjective judgments and analyses and changes thereto and/or consideration of different or additional factors could have a material impact on the results indicated. Therefore, actual results may vary, perhaps materially, from the results contained herein.

Unless otherwise indicated in this document, all statements of opinion reflect the current assessment of Deutsche Bank, which may change at any time. Deutsche Bank does not assume any obligation to either update the information contained in this document or inform investors about available updated information. The information contained in this document is subject to change without notice and based on a number of assumptions, estimates, opinions and hypothetical models or analyses which – although from the Bank's current point of view are based on adequate information – may not prove valid or turnout in the future to be accurate or correct and may be different from conclusions expressed by other departments within Deutsche Bank. Although the information contained in this document has been derived from sources that Deutsche Bank considers trustworthy and reliable, Deutsche Bank does not guarantee the completeness, fairness, or accuracy of the information and it should not be relied upon as such. This document may provide, for your convenience, references to websites and other external sources. Deutsche Bank takes no responsibility for their content and their content does not form any part of this document. Accessing such external sources is at your own risk.

To the extent permissible under applicable laws and regulations, this document is for discussion purposes only and is not intended to create any legally binding obligations on Deutsche Bank and Deutsche Bank is not acting as your financial advisor or in a fiduciary capacity, unless otherwise expressly agreed by Deutsche Bank in writing. Before making an investment decision, investors need to consider, with or without the assistance of a financial professional, whether any investments and strategies described or provided by Deutsche Bank are appropriate in light of the investor's particular investment needs, objectives, financial circumstances or the possible risks and benefits of such investment decision. When making an investment decision, potential investors should not rely on this document but only on what is contained in the final offering documentation relating to the investment. As a global financial services provider, Deutsche Bank from time to time faces actual and potential conflicts of interest. Deutsche Bank's policy is to take all appropriate steps to maintain and operate effective organizational and administrative arrangements to identify and manage such conflicts.

Deutsche Bank does not give tax or legal advice, including in this document, and nothing in this document should be interpreted as Deutsche Bank providing any person with any investment advice. Investors should seek advice from their own tax experts, lawyers, and investment advisers in considering investments and strategies described by Deutsche Bank. Unless notified to the contrary in a particular case, investment



Appendix

instruments are not insured by any governmental entity, not subject to deposit protection schemes and not guaranteed, including by Deutsche Bank. This document may not be reproduced or circulated without Deutsche Bank's express written authorization. Deutsche Bank expressly prohibits the distribution and transfer of this document to third parties. Deutsche Bank accepts no liability whatsoever arising from the use or distribution of this document or for any action taken or decision made in respect of investments mentioned in this document which the investor may have made or may make in the future.

The manner of circulation and distribution of this document may be restricted by law or regulation in certain countries, including, without limitation, the United States. This document is not directed to, or intended for distribution to or use by, any person or entity who is a citizen or resident of or located in any locality, state, country, or other jurisdiction where such distribution, publication use would be contrary to law or regulation or which would subject Deutsche Bank to any registration or licensing requirement within such jurisdiction which is not currently met. Persons into whose possession this document may come are required to inform themselves of, and to observe, such restrictions. Past performance is no guarantee of future results; nothing contained herein shall constitute any representation, warranty, or prediction as to future performance. Further information is available upon request.

Deutsche Bank AG is a stock corporation ("Aktiengesellschaft") incorporated under the laws of the Federal Republic of Germany with its head office in Frankfurt am Main. It is registered with the district court ("Amtsgericht") in Frankfurt am Main under number HRB 30 000 and licensed to carry out banking business and to provide financial services. Deutsche Bank AG is supervised by the European Central Bank ("ECB"), Sonnemannstrasse 22, 60314 Frankfurt am Main, Germany (www.ecb.europa.eu) and the German Federal Financial Supervisory Authority ("Bundesanstalt für Finanzdienstleistungsaufsicht" or "BaFin"), Graueindorfer Strasse 108, 53117 Bonn and Marie-Curie-Strasse 24-28, 60439 Frankfurt am Main (www.bafin.de), and by the German Central Bank ("Deutsche Bundesbank"), Wilhelm-Epstein-Strasse 14, 60431 Frankfurt am Main (www.bundesbank.de).

This document has neither been submitted to nor reviewed or approved by any of the above or below mentioned supervisory authorities.

This document was generated or edited with the support of artificial intelligence (AI). It was reviewed by responsible employees of Deutsche Bank's Chief Investment Office.

For Residents of the United Arab Emirates

This document is strictly private and confidential and is being distributed to a limited number of investors and must not be provided to any person other than the original recipient and may not be reproduced or used for any other purpose. By receiving this document, the person or entity to whom it has been issued understands, acknowledges and agrees that this document has not been approved by the UAE Central Bank, the UAE Securities and Commodities Authority, the UAE Ministry of Economy or any other authorities in the UAE. No marketing of any financial products or services has been or will be made from within the United Arab Emirates and no subscription to any funds, securities, products or financial services may or will be consummated within the United Arab Emirates. This does not constitute a public offer of securities in the United Arab Emirates in accordance with the Commercial Companies Law, Federal Law No. 2 of 2015 (as amended from time to time) or otherwise. This document may only be distributed to "Professional Investors", as defined in the UAE Securities and Commodities Authority's Rulebook on Financial Activities and Reconciliation Mechanism (as amended from time to time).

For Residents of Kuwait

This document has been sent to you at your own request. This presentation is not for general circulation to the public in Kuwait. The investments described herein have not been licensed for offering in Kuwait by the Kuwait Capital Markets Authority or any other relevant Kuwaiti government agency. The offering of any investments in Kuwait on the basis a private placement or public offering is, therefore, restricted in accordance with Decree Law No. 31 of 1990 and the implementing regulations thereto (as amended) and Law No. 7 of 2010 and the bylaws thereto (as amended). No private or public offering of any investments is being made in Kuwait, and no agreement relating to the sale of any investments will be concluded in Kuwait. No marketing or solicitation or inducement activities are being used to offer or market any investments in Kuwait.

For Residents of the Kingdom of Saudi Arabia

This document may not be distributed in the Kingdom except to such persons as are permitted under the Investment Fund Regulations issued by the Capital Market Authority. The Capital Market Authority does not take any responsibility for the contents of this document, does not make any representation as to its accuracy or completeness, and expressly disclaims any liability whatsoever for any loss arising from, or incurred in reliance upon, any part of this document. Prospective subscribers of the investments described herein should conduct their own due diligence on the accuracy of any information relating thereto. If you do not understand the contents of this document, you should consult an authorized financial adviser.



Appendix

For Residents of Qatar

This document has not been filed with, reviewed or approved by the Qatar Central Bank, the Qatar Financial Markets Authority, the Qatar Financial Centre Regulatory Authority or any other relevant Qatari governmental body or securities exchange or under any laws of the State of Qatar. This document does not constitute a public offering and is addressed only to the party to whom it has been delivered. No transaction will be concluded in Qatar and any inquiries or applications should be received, and allotments made, outside Qatar.

For Residents of the Kingdom of Bahrain

This document does not constitute an offer for sale of, or participation in, securities, derivatives or funds marketed in Bahrain within the meaning of Bahrain Monetary Agency Regulations. All applications for any investment should be received and any allotments should be made, in each case from outside of Bahrain. This document has been prepared for private information purposes of intended investors only who will be institutions. No invitation shall be made to the public in the Kingdom of Bahrain and this document will not be issued, passed to, or made available to the public generally. The Central Bank (CBB) has not reviewed, nor has it approved, this document or the marketing of any such securities, derivatives or funds in the Kingdom of Bahrain.

For Residents of Lebanon

By accepting this documentation, Client hereby represents that (i) this documentation was sent to it by Deutsche Bank in response to an unsolicited request made by it, (ii) it has or will execute any documents associated with any transaction described in this document (a "Transaction") outside of the Lebanese Republic in a jurisdiction in which it is lawful to do the same, (iii) any Transaction entered into shall be deemed to be concluded and booked outside of the Lebanese Republic in a jurisdiction in which it is lawful to do the same and (iv) it has entered or will enter into any Transaction for a bona fide commercial purpose and as part of a sound investment or financial management policy, namely for the purposes of managing its borrowings or investments, hedging its underlying assets or liabilities or in connection with its line of business and not for speculative or illegal purposes.

Deutsche Bank has not obtained the authorization of the Central Council of the Central Bank of Lebanon to market, promote, offer or sell ("offered") any product pursuant to any Transaction in Lebanon and no such product is being offered into Lebanon hereby.

For Residents of South Africa

This document does not constitute or form a part of any offer, solicitation or promotion in South Africa. This document has not been filed with, reviewed or approved by the South African Reserve Bank, the Financial Sector Conduct Authority or any other relevant South African governmental body or securities exchange or under any laws of the Republic of South Africa.

For Residents of Belgium

This document has been distributed in Belgium by Deutsche Bank AG acting through its Brussels Branch. Deutsche Bank AG is a stock corporation ("Aktiengesellschaft") incorporated under the laws of the Federal Republic of Germany and licensed to carry on banking business and to provide financial services subject to the supervision and control of the European Central Bank ("ECB") and the German Federal Financial Supervisory Authority ("BaFin"). Deutsche Bank AG, Brussels Branch, is also supervised in Belgium by the Financial Services and Markets Authority ("FSMA", www.fsma.be). The branch has its registered address at Marnixlaan 13-15, B-1000 Brussels and is registered under number VAT BE 0418.371.094, RPM/RPR Brussels. Further details are available on request or can be found at www.deutschebank.be.

For Residents of the United Kingdom

This document is a financial promotion as defined in Section 21 of the Financial Services and Markets Act 2000 and is approved by and communicated to you by DB UK Bank Limited. DB UK Bank Limited is a member of the Deutsche Bank AG group and is registered at Companies House in England & Wales with company number 315841 with its registered Office at 21 Moorfields, London, United Kingdom, EC2Y 9DB. DB UK Bank Limited is authorised by the Prudential Regulation Authority and is regulated by the Financial Conduct Authority and the Prudential Regulation Authority. DB UK Bank Limited's Financial Services Registration Number is 140848.

Deutsche Bank Aktiengesellschaft is incorporated in the Federal Republic of Germany and its members' liability is limited.

For Residents of Hong Kong

This document is intended for Professional Investors in Hong Kong. Furthermore, this document is provided to the addressee only, further distribution of this document is strictly prohibited. This document and its contents are provided for information only. Nothing in this document is intended to be an offer of any investment or a solicitation or recommendation to buy or to sell an investment and should not be interpreted or construed as such an offer, solicitation, or recommendation.

The contents of this document have not been reviewed by any regulatory authority in Hong Kong. You are advised to exercise caution in relation to the investments contained herein (if any). If you are in any doubt about any of the contents of this document, you should obtain independent professional advice.

In Europe, Middle East and Africa as well as in Asia Pacific this material is considered marketing material, but this is not the case in the US. No assurance can be given that any forecast or target can be achieved. Forecasts are based on assumptions, estimates, opinions and hypothetical models which may prove to be incorrect. Past performance is not indicative of future returns. Performance refers to a nominal value based on price gains/losses and does not take into account inflation. Inflation will have a negative impact on the purchasing power of this nominal monetary value. Depending on the current level of inflation, this may lead to a real loss in value, even if the nominal performance of the investment is positive. Investments come with risk. The value of an investment can fall as well as rise and you might not get back the amount originally invested at any point in time. Your capital may be at risk. This document was produced in March 2026.



Appendix

This document has not been approved by the Securities and Futures Commission in Hong Kong ("SFC"), nor has a copy of this document been registered by the Registrar of Companies in Hong Kong, unless specified otherwise. The investments described herein may or may not be authorised by the SFC. Any such investment may not be offered or sold in Hong Kong, by means of any document, other than (i) to "professional investors" as defined in the Securities and Futures Ordinance (Cap. 571 of the Laws of Hong Kong) ("SFO") and any rules made under the SFO, or (ii) in other circumstances which do not result in the document being a "prospectus" as defined in the Companies (Winding Up and Miscellaneous Provisions) Ordinance (Cap. 32 of the Laws of Hong Kong) (the "C(WUMP)O") or which do not constitute an offer to the public within the meaning of the C(WUMP)O. No person shall issue or possess for the purposes of issue, whether in Hong Kong or elsewhere, any advertisement, invitation or document relating to the investments described herein, which is directed at, or the contents of which are likely to be accessed or read by, the public of Hong Kong (except if permitted to do so under the securities laws of Hong Kong) other than with respect to investments which are or are intended to be disposed of only to persons outside Hong Kong or only to "professional investors" as defined in the SFO and any rules made under the SFO.

For Residents of Singapore

This document is intended for Accredited Investors / Institutional Investors in Singapore. Furthermore, this document is provided to addressee only, further distribution of this material is strictly prohibited.

For Residents of the United States of America

In the United States, brokerage services are offered through Deutsche Bank Securities Inc., a broker-dealer and registered investment adviser, which conducts securities activities in the United States. Deutsche Bank Securities Inc. is a member of FINRA, NYSE and SIPC. Banking and lending services are offered through Deutsche Bank Trust Company Americas, member FDIC, and other members of the Deutsche Bank Group. In respect of the United States, see earlier statements made in this document. Deutsche Bank makes no representations or warranties that the information contained herein is appropriate or available for use in countries outside of the United States, or that services discussed in this document are available or appropriate for sale or use in all jurisdictions, or by all counterparties. Unless registered, licensed as otherwise may be permissible in accordance with applicable law, none of Deutsche Bank or its affiliates is offering any services in the United States or that are designed to attract US persons (as such term is defined under Regulation S of the United States Securities Act of 1933, as amended). This United States-specific disclaimer will be governed by and construed in accordance with the laws of the State of Delaware, without regard to any conflicts of law provisions that would mandate the application of the law of another jurisdiction.

For Residents of Germany

This information in this document is advertising. The text does not meet all legal requirements to ensure the impartiality of investment and investment strategy recommendations or financial analyses. There is no prohibition for the compiler or for the company responsible for the compilation to trade with the respective financial instruments before or after the publication of these documents.

General information on financial instruments is contained in the brochures "Basic Information on Securities and Other Investments", "Basic Information on Financial Derivatives" and "Basic Information on Forward Transactions" which the customer can request from Deutsche Bank free of charge.

For Residents of India

The investments mentioned in this document are not being offered to the Indian public for sale or subscription. This document is not registered and/or approved by the Securities and Exchange Board of India, the Reserve Bank of India, or any other governmental/ regulatory authority in India. This document is not and should not be deemed to be a "prospectus" as defined under the provisions of the Companies Act, 2013 (18 of 2013) and the same shall not be filed with any regulatory authority in India. Pursuant to the Foreign Exchange Management Act, 1999 and the regulations issued thereunder, any investor resident in India may be required to obtain prior special permission of the Reserve Bank of India before making investments outside of India including any investments mentioned in this document.

For Residents of Italy

This report is distributed in Italy by Deutsche Bank S.p.A., a bank incorporated and registered under Italian law subject to the supervision and control of Banca d'Italia and CONSOB. Its registered office is located at Piazza del Calendario 3 – 20126 Milan (Italy) and it is registered with the Chamber of Commerce of Milan, VAT and fiscal code number 001340740156, part of the interbank fund of deposits protection, enrolled in the Bank Register and the head of Deutsche Bank Banking Group, enrolled in the register of the Banking Groups pursuant to Legislative Decree September 1st, 1993 n. 385 and subject to the direction and coordination activity of Deutsche Bank AG, Frankfurt am Main (Germany).

For Residents of Luxembourg

This report is distributed in Luxembourg by Deutsche Bank Luxembourg S.A., a bank incorporated under the laws of the Grand Duchy of Luxembourg in the form of a public limited company (Société Anonyme), subject to the supervision and control of the European Central Bank ("ECB") and Commission de Surveillance du Secteur Financier ("CSSF"). Its registered office is located at 2, boulevard Konrad Adenauer, 1115 Luxembourg, Grand Duchy of Luxembourg and is registered with Luxembourg Registre de Commerce et des Sociétés ("RCS") under number B 9.164.

In Europe, Middle East and Africa as well as in Asia Pacific this material is considered marketing material, but this is not the case in the US. No assurance can be given that any forecast or target can be achieved. Forecasts are based on assumptions, estimates, opinions and hypothetical models which may prove to be incorrect. Past performance is not indicative of future returns. Performance refers to a nominal value based on price gains/losses and does not take into account inflation. Inflation will have a negative impact on the purchasing power of this nominal monetary value. Depending on the current level of inflation, this may lead to a real loss in value, even if the nominal performance of the investment is positive. Investments come with risk. The value of an investment can fall as well as rise and you might not get back the amount originally invested at any point in time. Your capital may be at risk. This document was produced in March 2026.



Appendix

For Residents of Spain

This document has been distributed by Deutsche Bank, Sociedad Anónima Española Unipersonal is a credit institution regulated by the Bank of Spain (registered in its Official Registry under the Code 019) and the CNMV. Deutsche Bank, Sociedad Anónima Española Unipersonal may only undertake the financial services and banking activities that fall within the scope of its existing license. Its registered office in Spain is located in Paseo de la Castellana number 18, 28046 – Madrid. Registered in the Mercantile Registry of Madrid, Volume 28100, Book 0, Folio 1, Section 8, Sheet M506294, Registration 2. NIF: A08000614.

For Residents of Portugal

Deutsche Bank AG, Portugal Branch is a credit institution regulated by the Bank of Portugal and the Portuguese Securities Commission ("CMVM"), registered with numbers 43 and 349, respectively and with commercial registry number 980459079. Deutsche Bank AG, Portugal Branch may only undertake the financial services and banking activities that fall within the scope of its existing license. Its registered address is Rua Castilho, 20, 1250-069 Lisbon, Portugal.

For Residents of Austria

This document is distributed by Deutsche Bank AG, Vienna Branch, registered in the commercial register of the Vienna Commercial Court under number FN 140266z. Deutsche Bank AG's Vienna branch is also supervised by the Austrian Financial Market Authority (FMA), Otto-Wagner-Platz 5, 1090 Vienna. This document has neither been submitted to nor approved by the aforementioned supervisory authorities.

For Residents of the Netherlands

This document is distributed by Deutsche Bank AG, Amsterdam Branch, with registered address at De entree 195 (1101 HE) in Amsterdam, the Netherlands, and registered in the Netherlands trade register under number 33304583 and in the register within the meaning of Section 1:107 of the Netherlands Financial Supervision Act (Wet op het financieel toezicht). This register can be consulted through www.dnb.nl.

For Residents of France

Deutsche Bank AG is an authorized credit institution, subject to the overall supervision of the European Central Bank and BaFin, the German Federal Financial Supervisory Authority. Its various branches are locally supervised, for certain activities, by the competent banking authorities, such as the Prudential Control and Resolution Authority (Autorité de Contrôle Prudentiel de Résolution, "ACPR") and the Financial Markets Authority (Autorité des Marchés Financiers, "AMF") in France.

Any reproduction, representation, distribution or redistribution, in whole or in part, of the contents of this document in any medium or by any process whatsoever, as well as any sale, resale, retransmission or making available to third parties in any manner whatsoever, is prohibited. This document may not be reproduced or distributed without our written permission.

© 2026 Deutsche Bank AG. All rights reserved.

057810 032326

SJ/JL