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Global energy system is at the heart of modern life

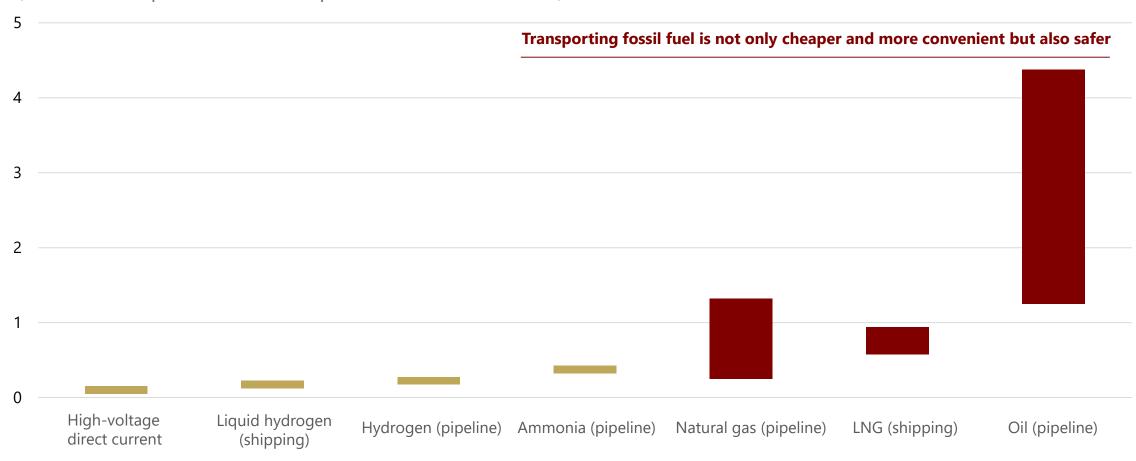




New energy sources will require the emergence of new technologies, infrastructure and markets

Energy transportability

(MWh moved per 1 US\$ of transport cost over 1000 miles)

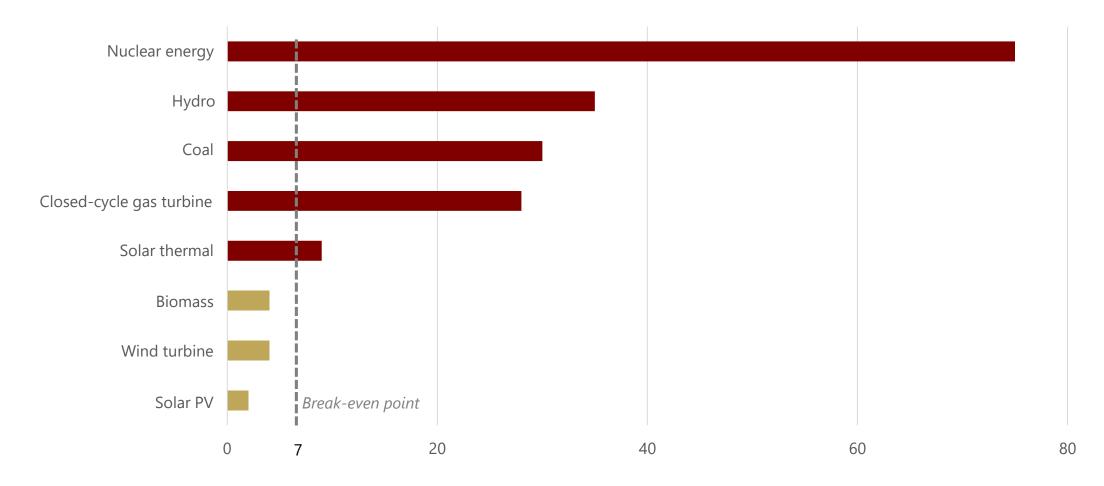






Energy efficiency of fossil fuel investments outpaces that of renewables

Energy return on investments

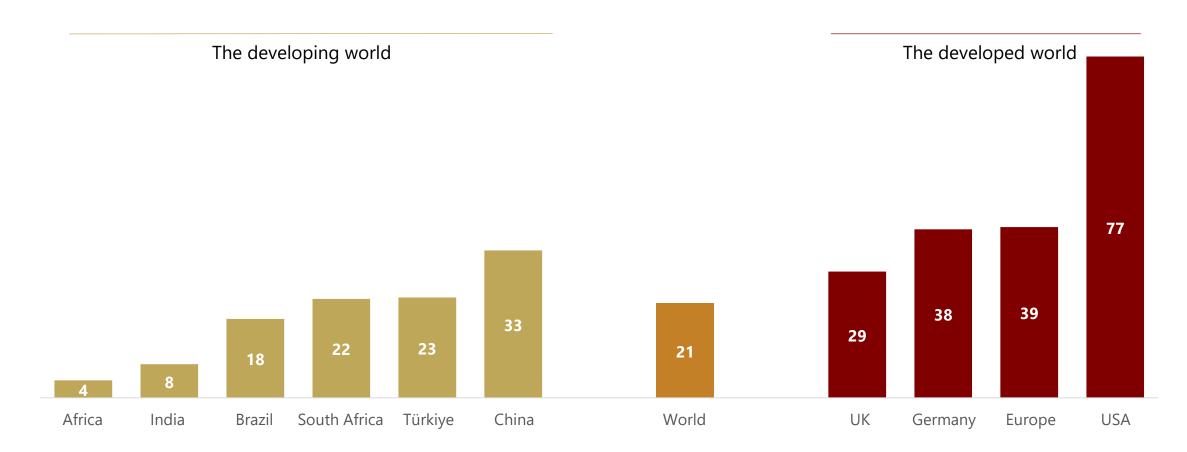






Energy consumption in developed countries is times higher compared to the developing world

Primary energy consumption per capita in 2023 (MWh)



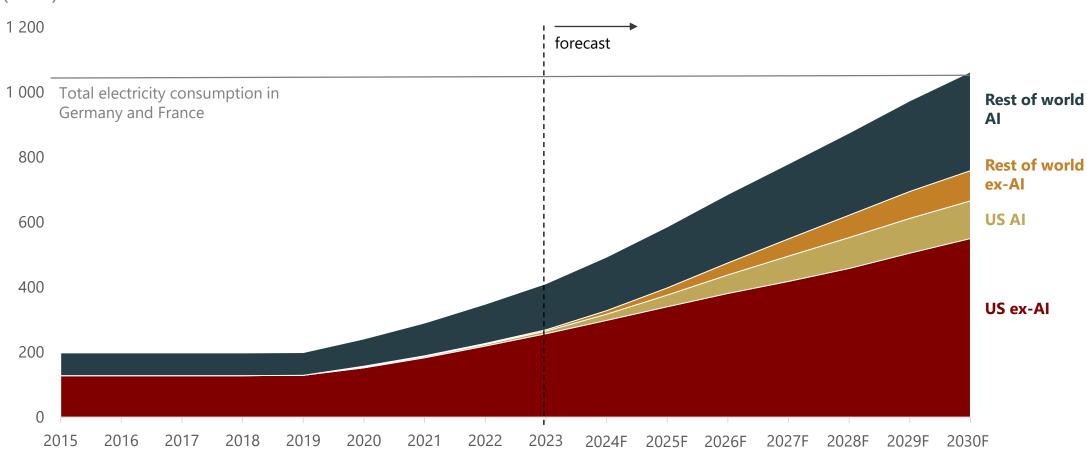




New technologies – a powerful driver of energy consumption

Data center power demand

(TWh)

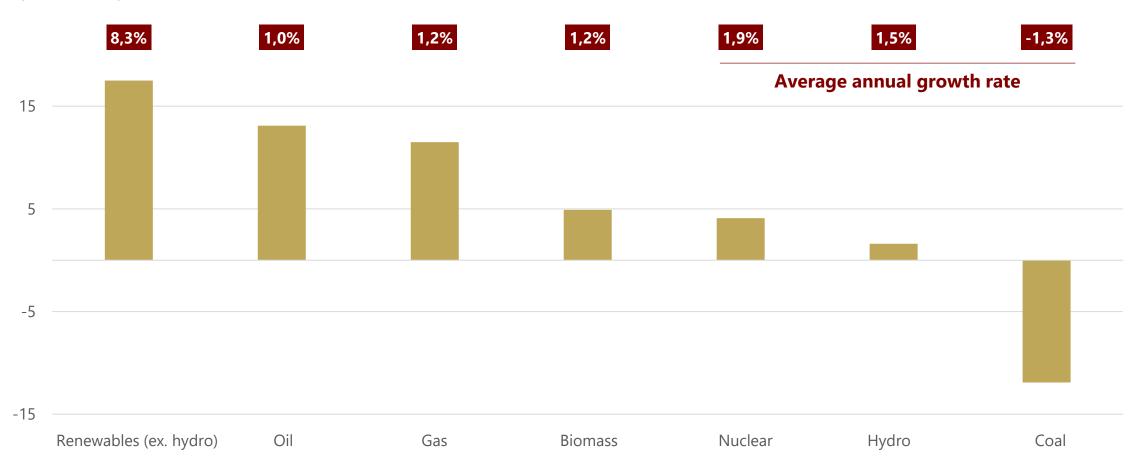






Oil and gas will remain a cornerstone of global energy mix

Energy demand growth by fuel source from 2023 to 2050 (mn boe/d)

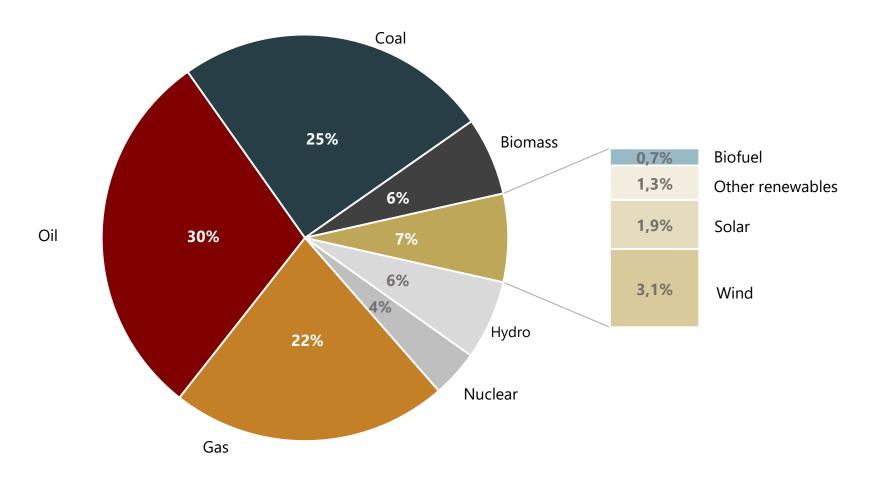






Fossil fuels provide around 80% of energy consumption

World energy consumption structure, by source







Oil consumption forecasts depend on views on the green agenda

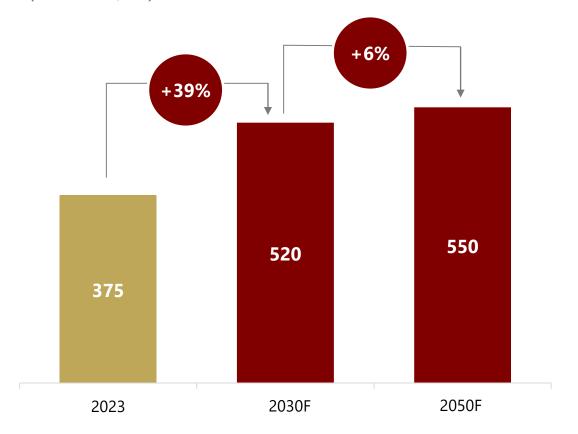
Oil demand forecast (mn b/d)130 EIA 121,5 **OPEC** 120,1 110 IEEJ 104 101,4 ExxonMobil 93,1 IEA 90 In 2023 world liquids fuel demand was 76,8 99,1 mn b/d (excl. biofuels) 70 2020 2025 2030 2035 2040 2045 2050



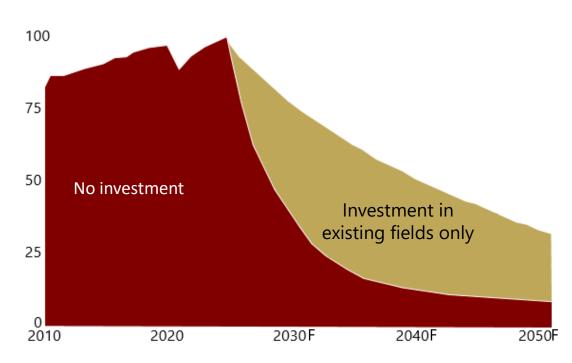


Oil sector needs investments until 2050

Annual upstream investments requirements (2024 US\$bn)



Oil supply profile under different investment scenarios (mn b/d)

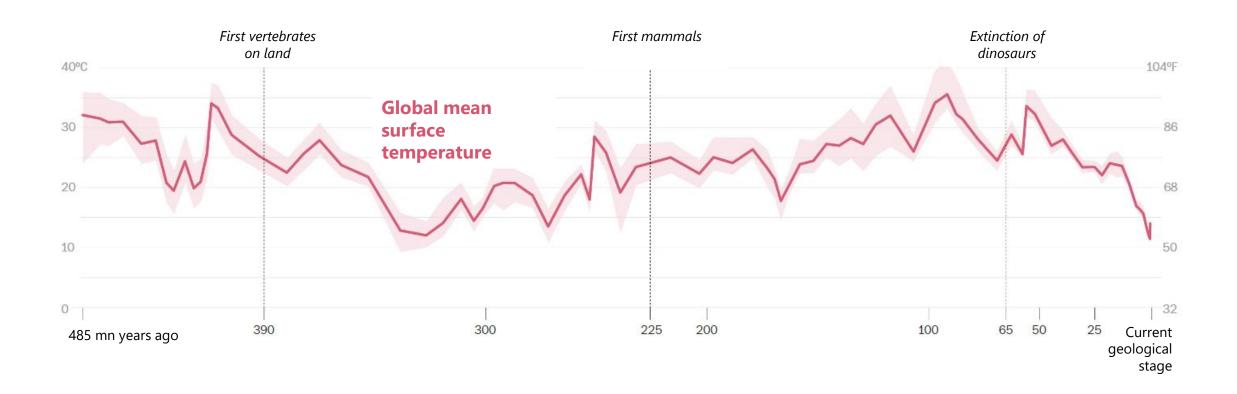






Earth's surface temperature is at a natural level

Earth's surface average temperature over the past 485 mn years

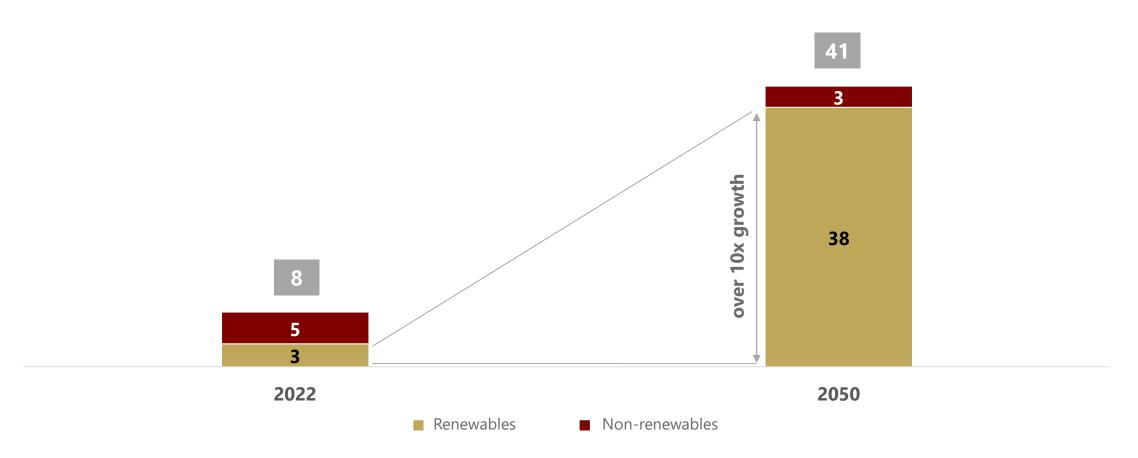






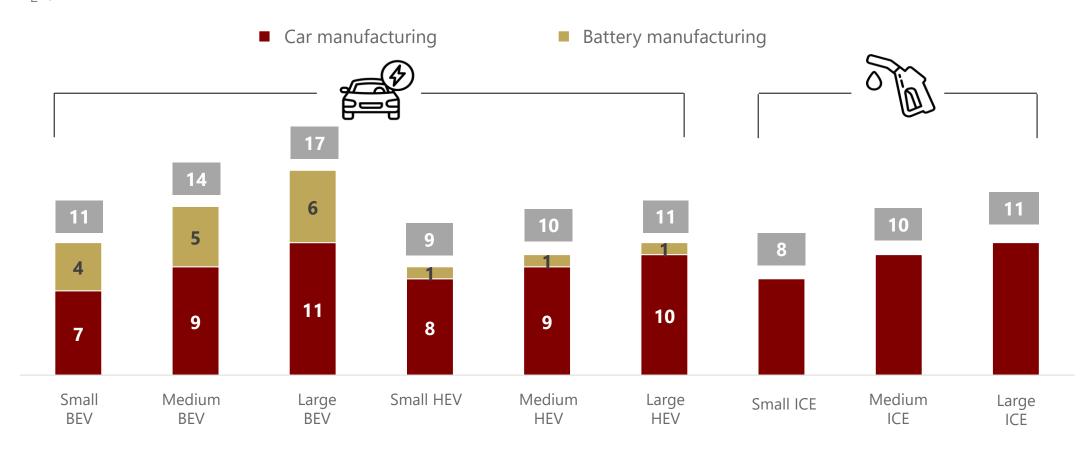
To achieve Net Zero by 2050, renewable capacity has to grow by 10x. Is this feasible?

Required installed capacity of electricity generation by 2050 in order to meet climate targets (TWh)



Released emissions from electric car production 35-50% higher compared to ICE car production

Released emissions from car production, by car type (tCO_2e)

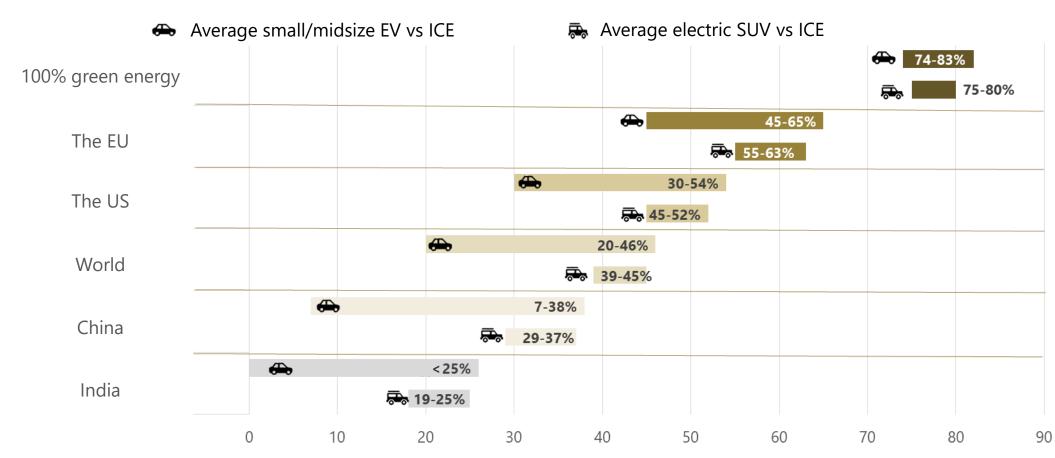






Only substantial mileage allows for emissions savings

Lifetime emissions saved at 200 000 km for an EV in comparison with an ICE car (%)

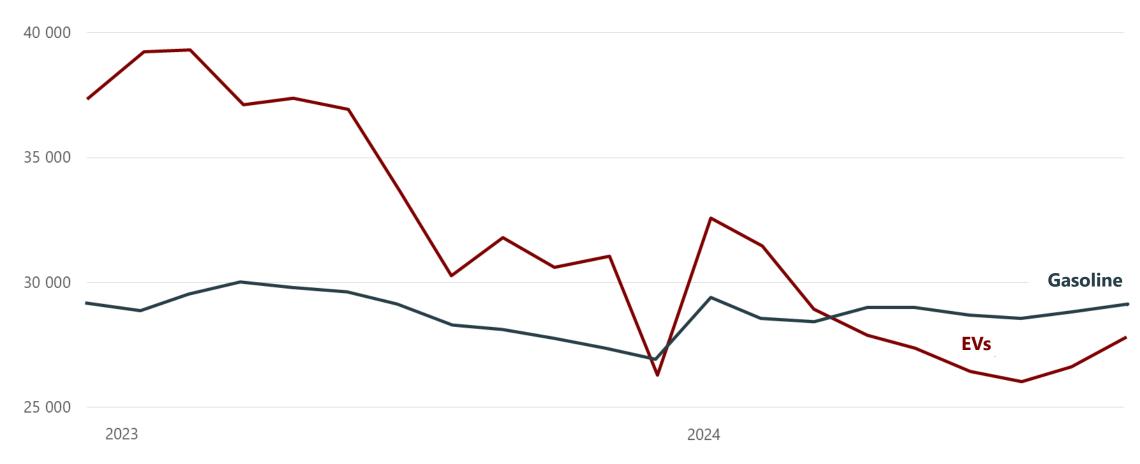






Buyers are disappointed in EVs

Average sales price of used vehicles in the US by engine type (US\$)





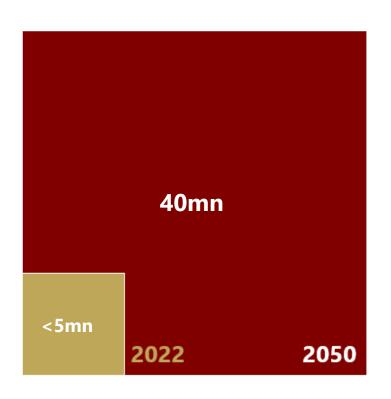


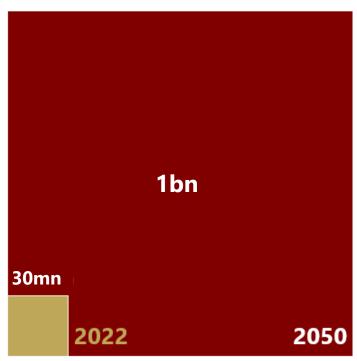
Electrification of heavy-duty vehicles has not even started

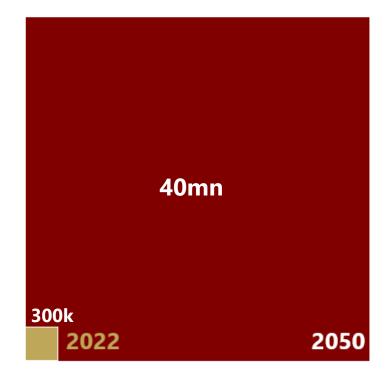
Public charging points

BEVs and FCEVs on the road

Battery and fuel cell electric trucks on the road







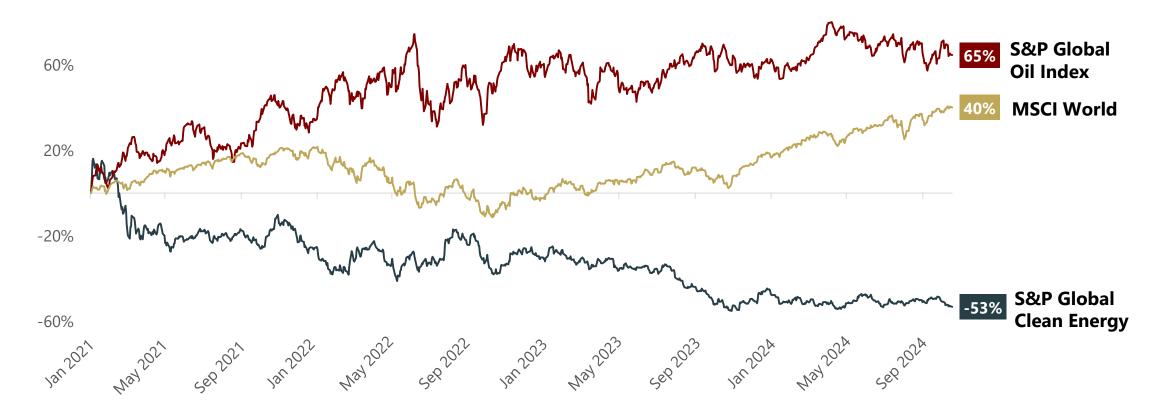




Investors flee from green agenda

Performance of renewable energy, oil and gas and global market stock indices (%, from the beginning of 2021)

100%

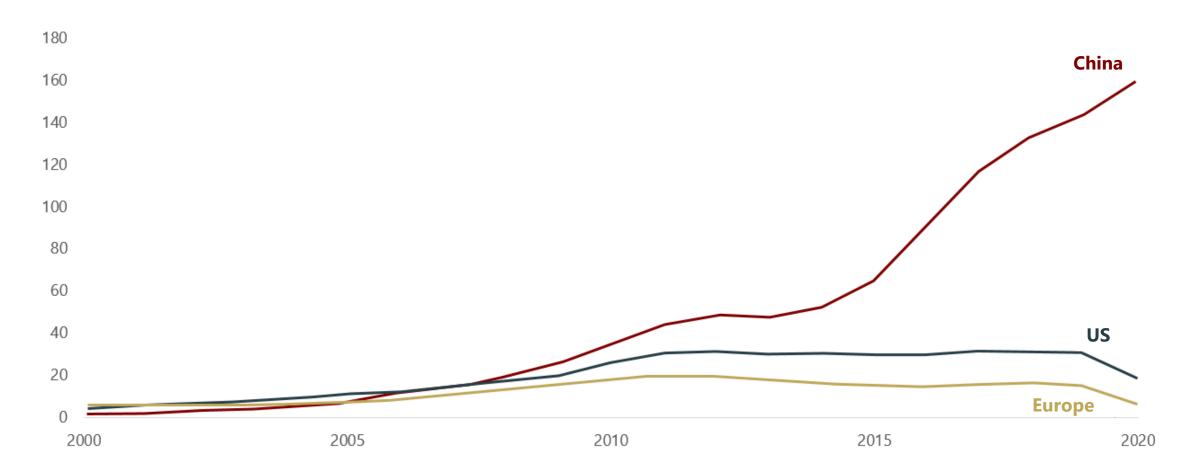






The US lags behind in clean energy research

The number of clean energy patents by country

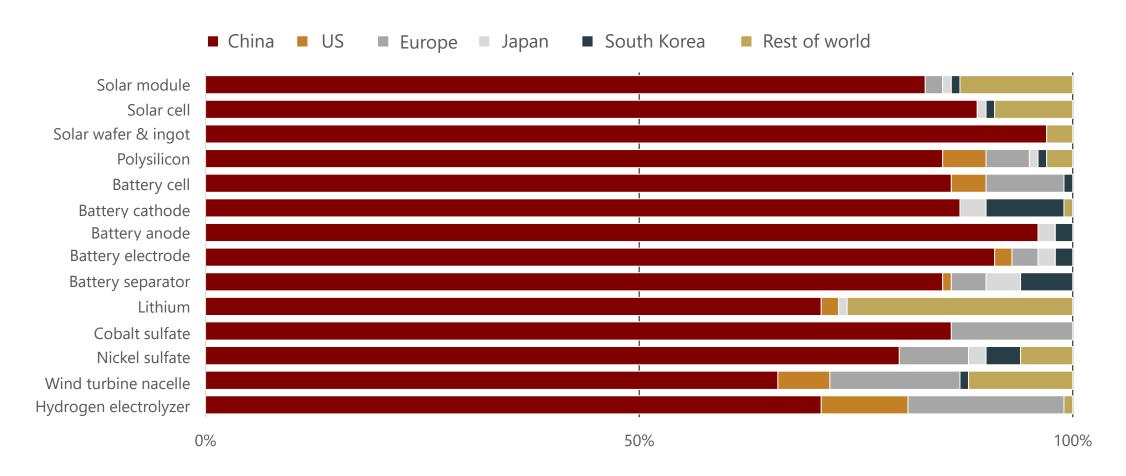






70% of global "green" capacity is located in China

Share in "green" economy equipment production capacity by country

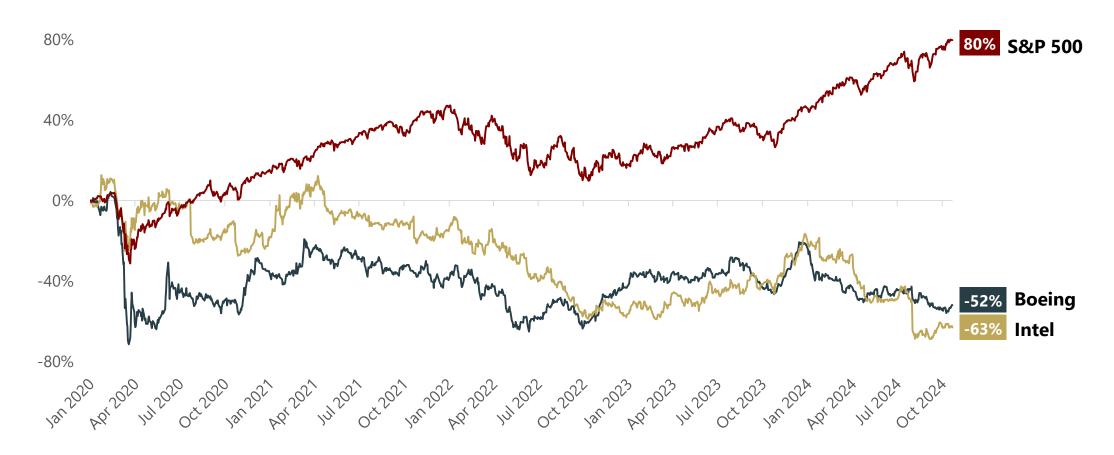






Boeing and Intel are in free fall

Stock performance of Boeing, Intel and the S&P 500 Index (%, from the beginning of 2020)

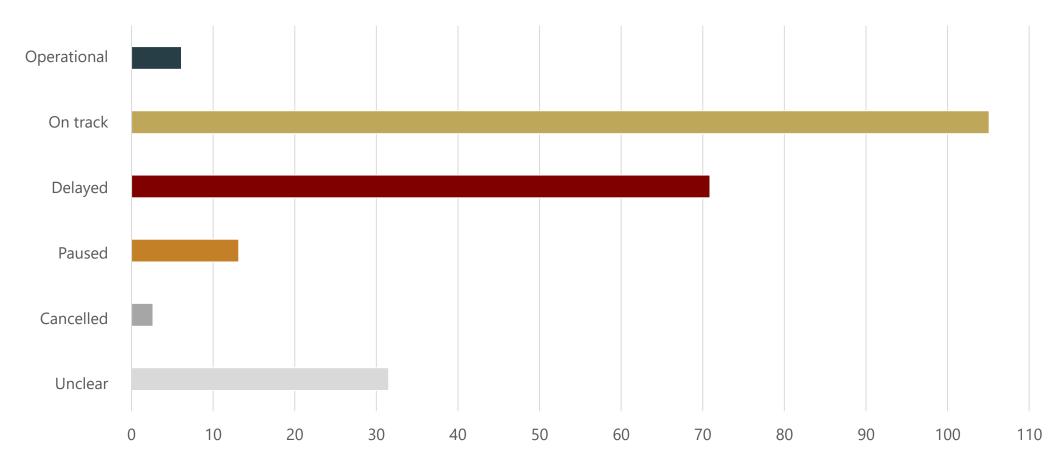






40% of new US "green" projects have been paused or canceled

Total investment by status for announced projects under the US Inflation Reduction Act (US\$bn)

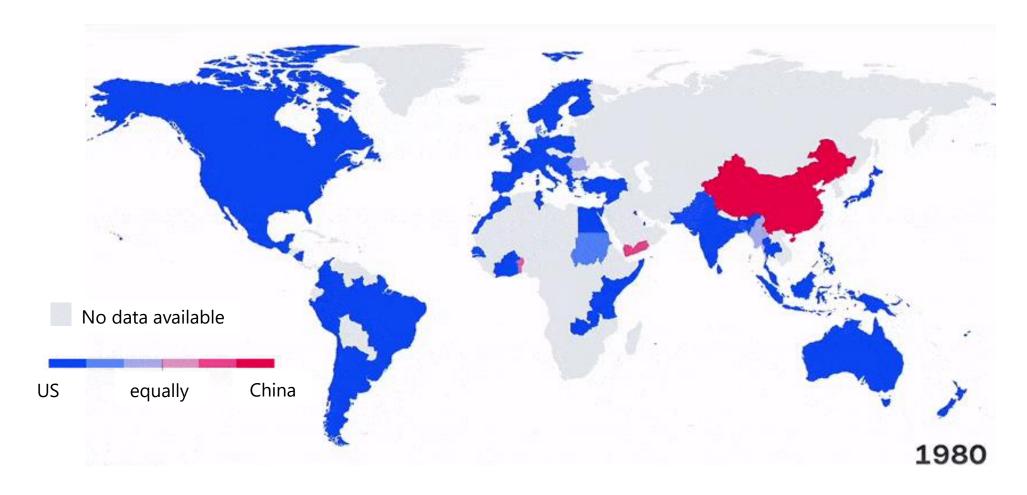






The US has lost its leadership in global trade

US-China rivalry in international trade

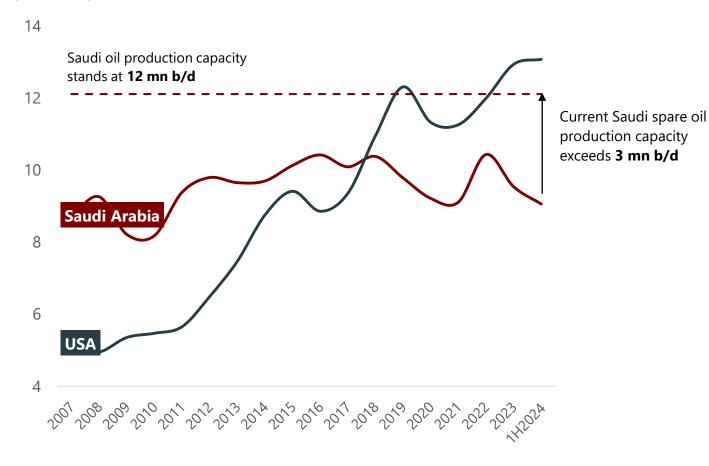


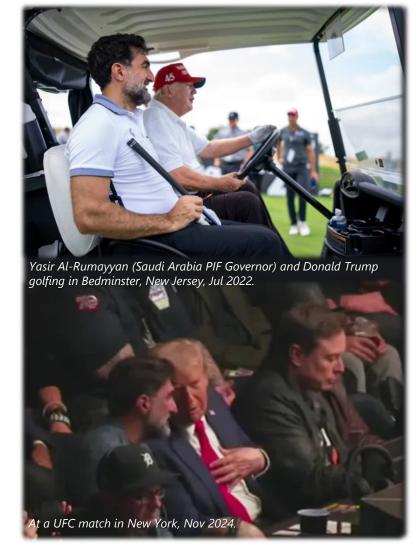




Citius, Altius, Fortius!

US and Saudi oil production (mn b/d)

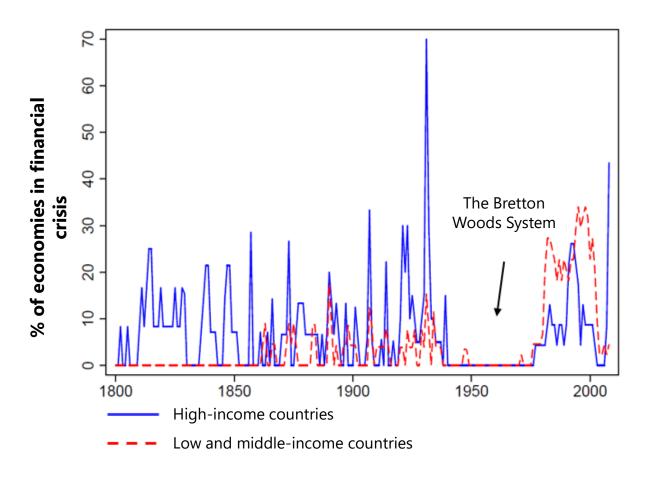






The gold currency exchange standard supported financial stability

The history of world banking crises since 1800

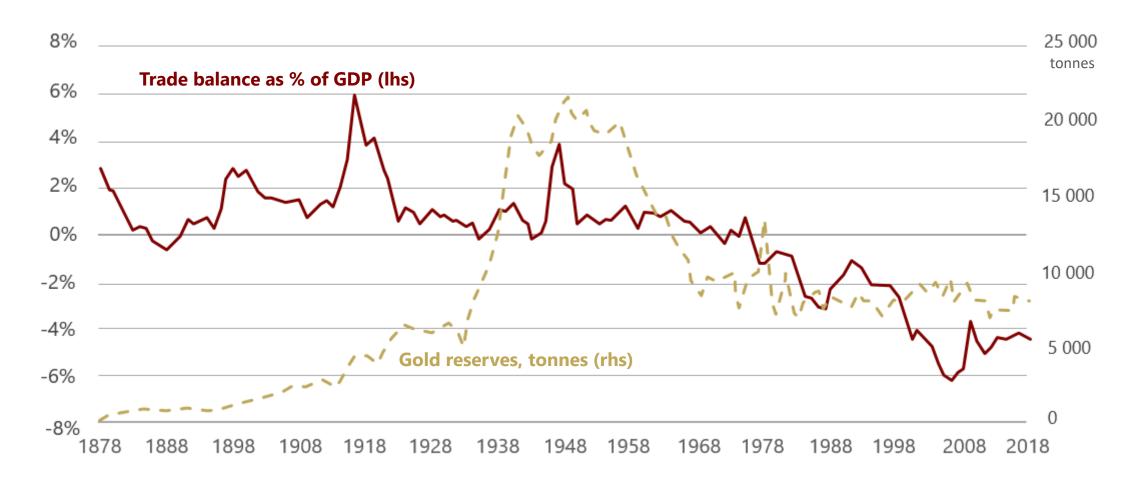






Weakening trade balance caused gold outflow from the US

US gold reserves and trade balance

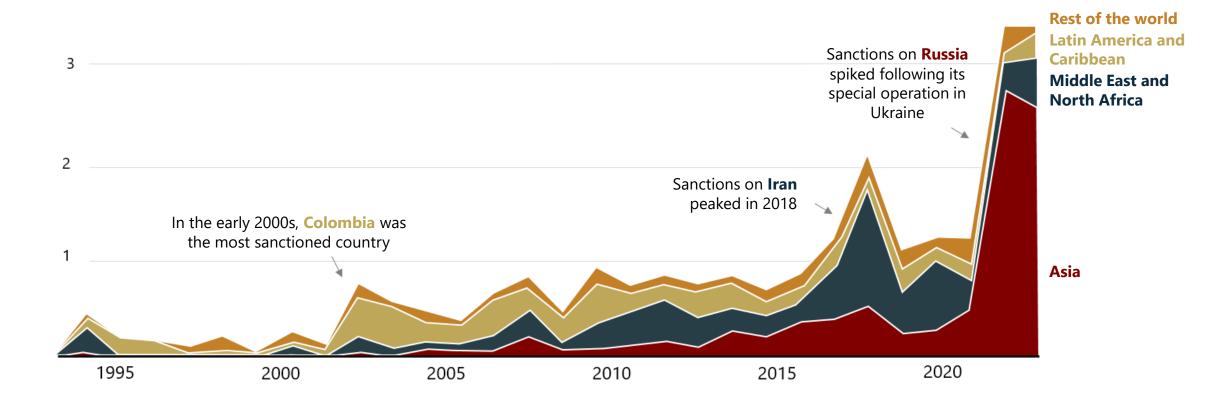






US sanctions undermine confidence in USD

Number of US sanctions imposed, by world region (k)

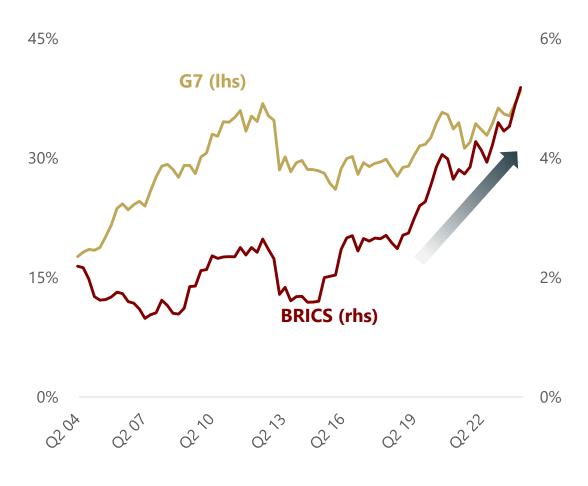






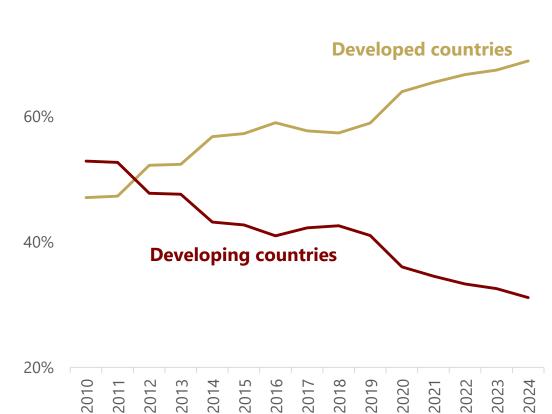
Is the dollar's status at risk?

Share of gold in foreign exchange reserves



Distribution of foreign holders of US Treasuries

80%

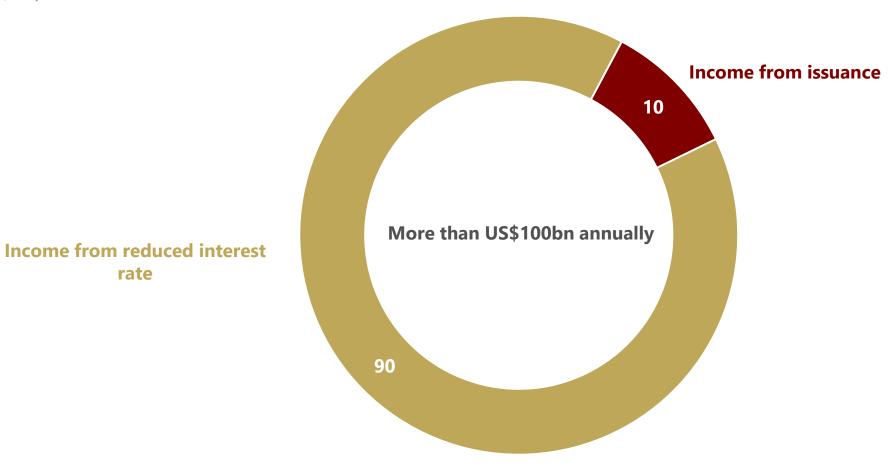






The US benefits from the dollar's status

US gains from the dollar's status as a reserve currency (US\$bn)



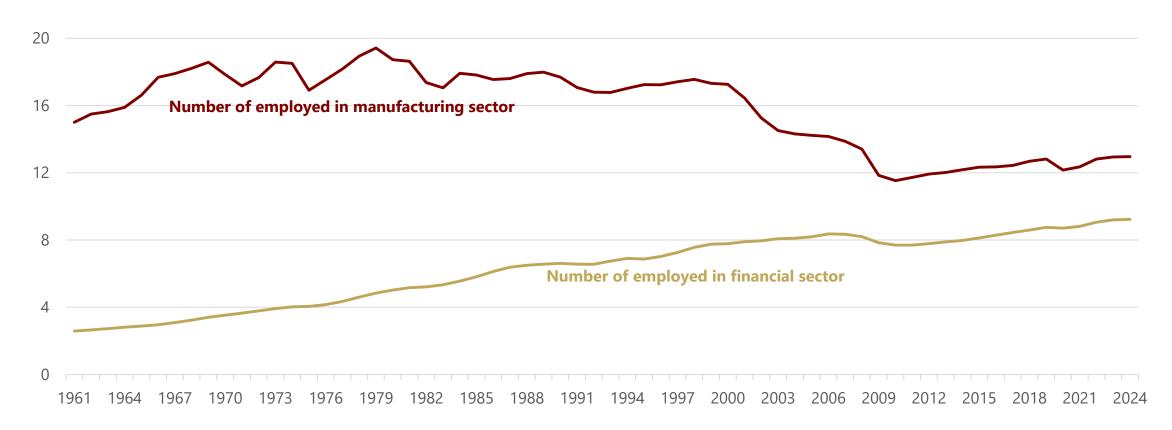




rate

US financial sector dominance expands as share of manufacturing declines

Employment in US manufacturing and financial sectors (mn, seasonally adjusted)

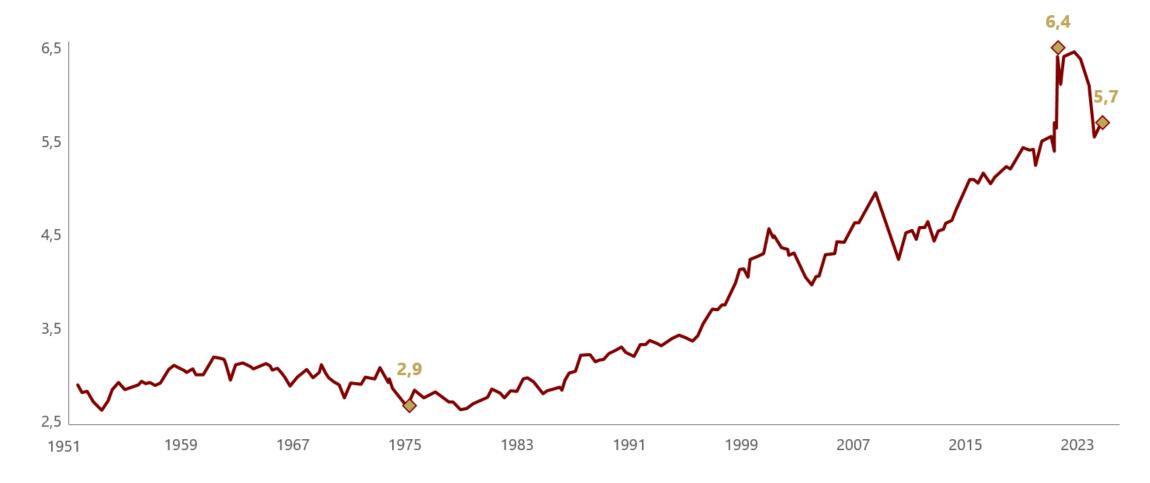






US liquidity bubble is growing

US private sector financial assets to GDP ratio

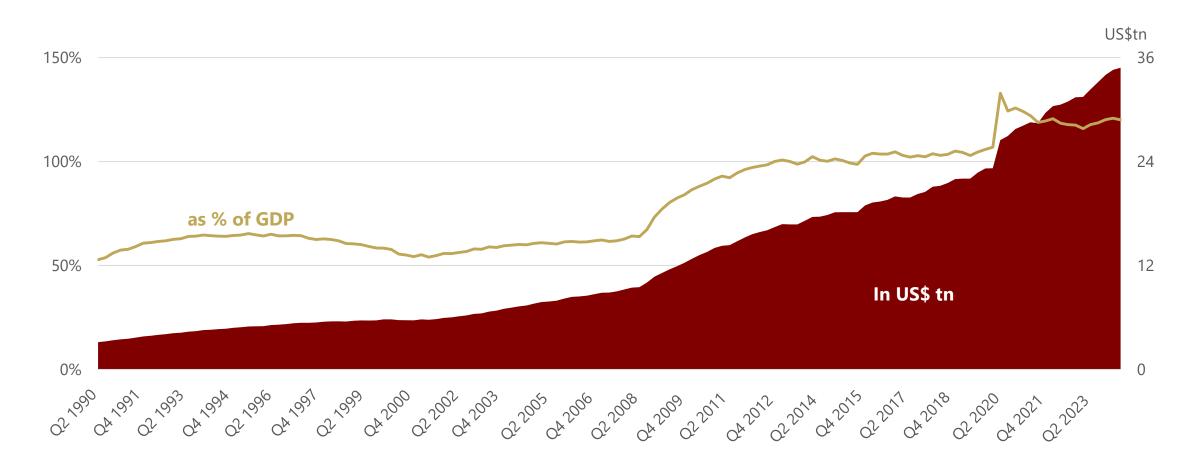






US national debt is spiraling out of control

US gross federal debt

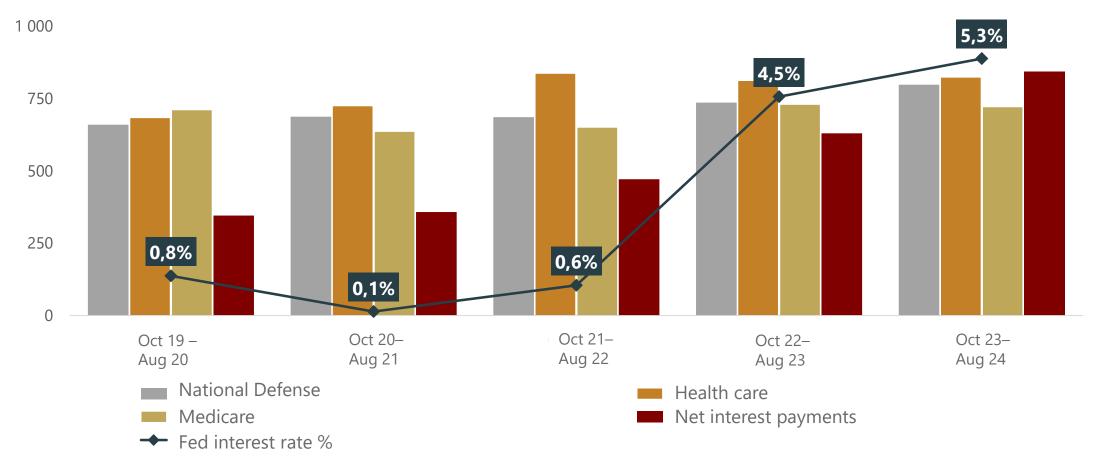






US government debt spending is skyrocketing

US budget expenditures on net interest payments, defense, health care and Medicare (US\$bn)

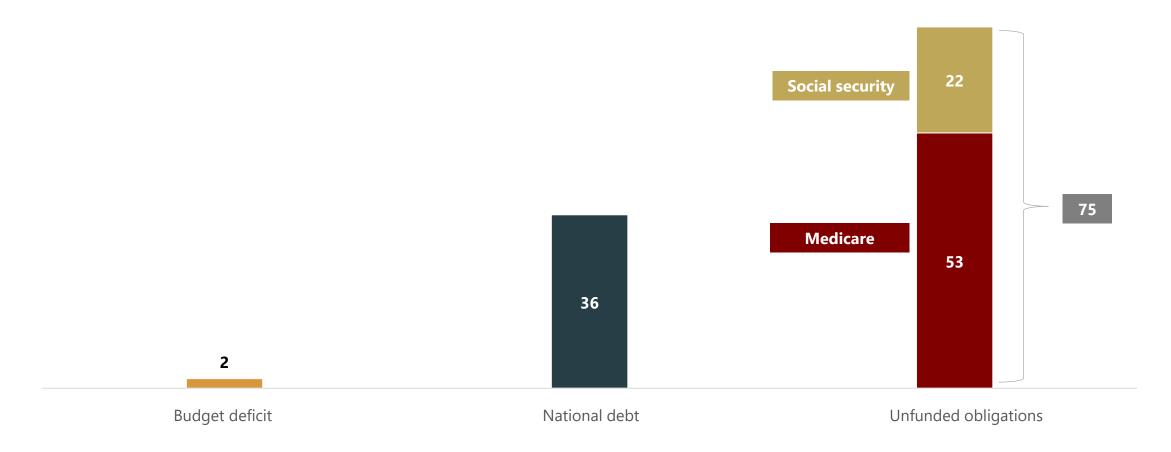






US unfunded social obligations reach \$75 trillion

Three layers of US government debt (US\$tn)

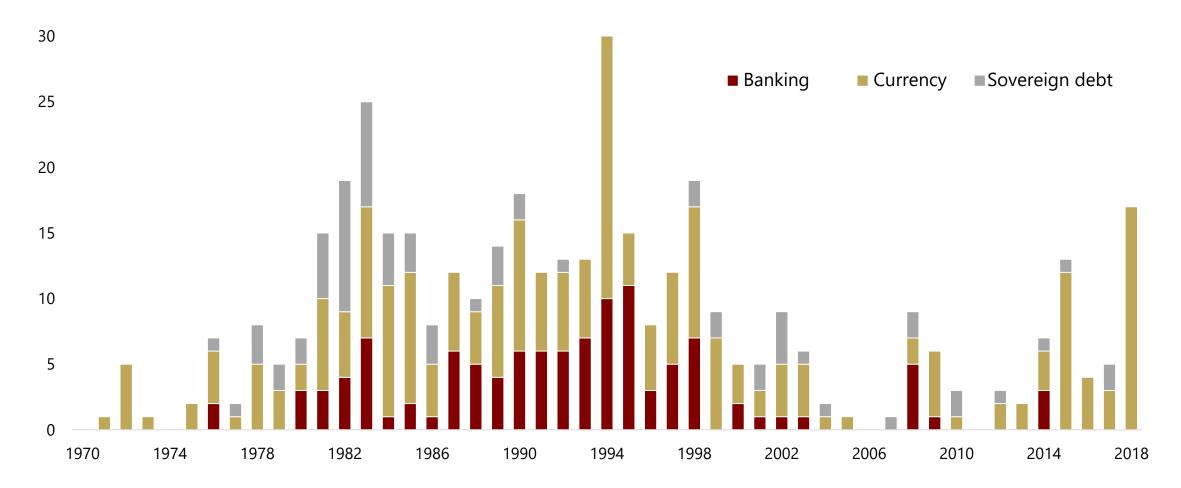






Developing countries fall victim of US dollar dominance

Number of financial crises in developing countries

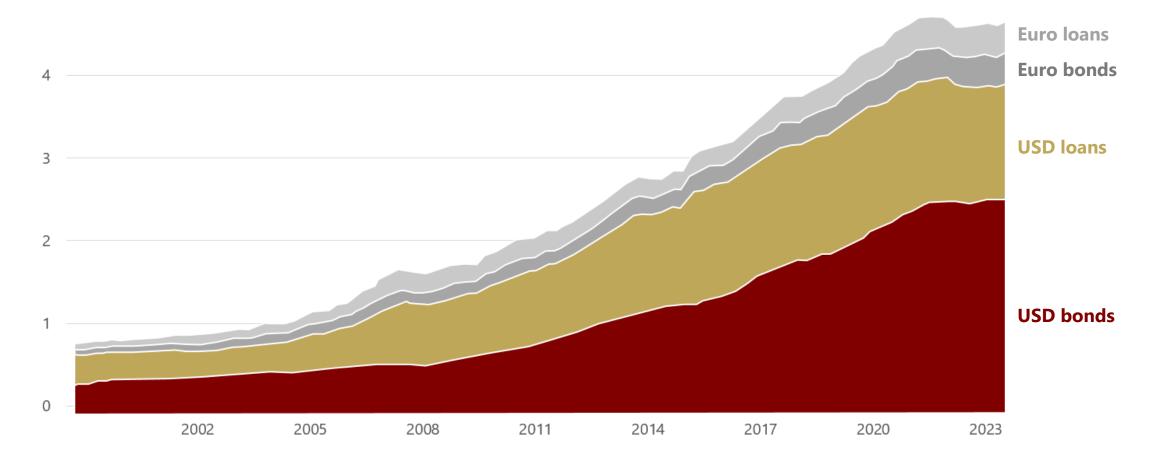






The "Washington consensus" leads to USD debt explosion

USD and Euro debt of developing countries (US\$tn)







Wealth drained from developing countries

Wealth transfer from developing to developed countries

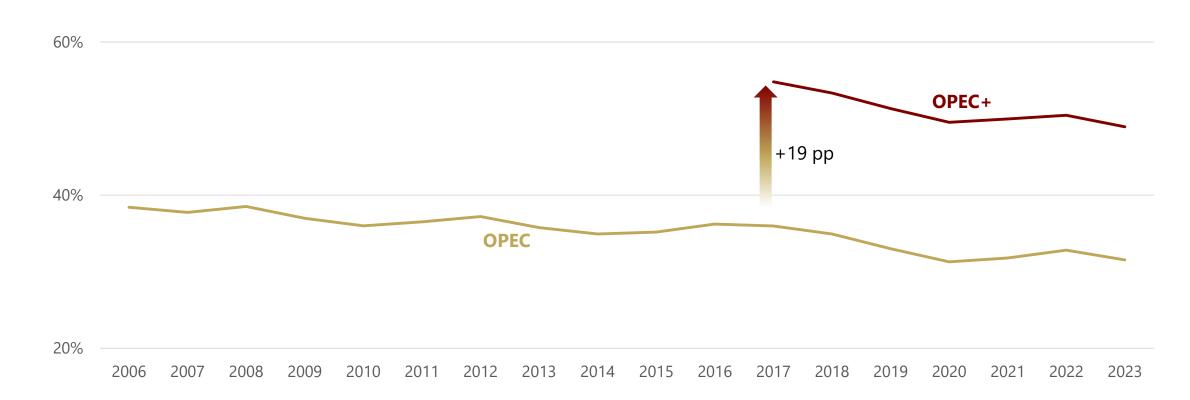






OPEC+ protected interests of producers due to its market share

World oil market share of OPEC and OPEC+ (%)

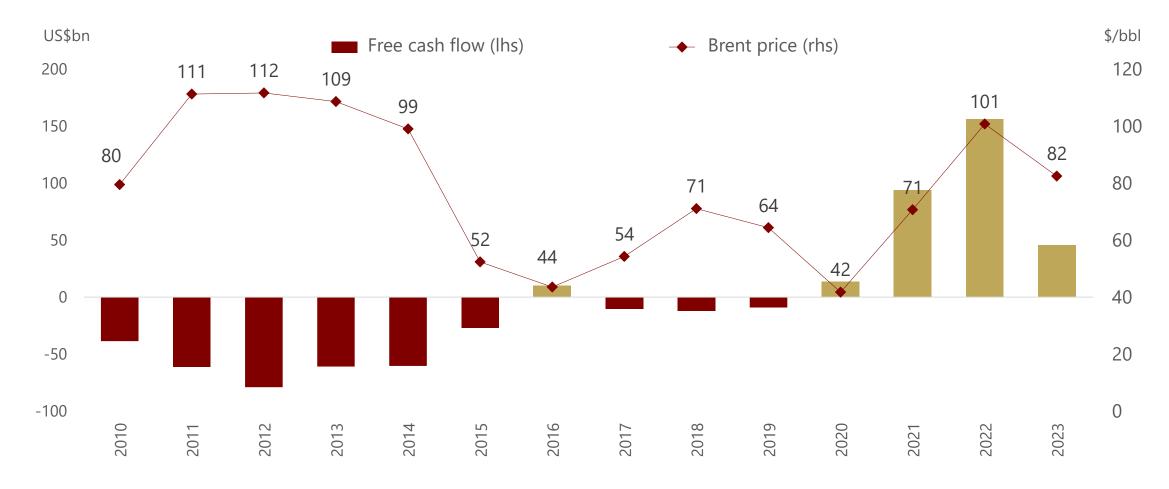






OPEC+ agreement supported US shale industry

Total FCF from US shale industry







Russia possesses a unique resource base

Value of natural resources (US\$tn)

