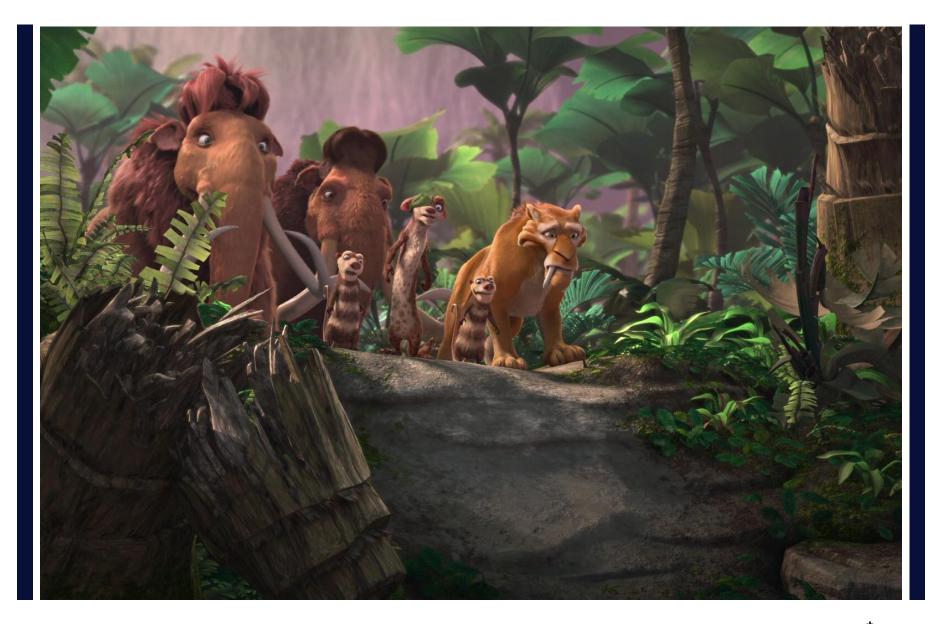
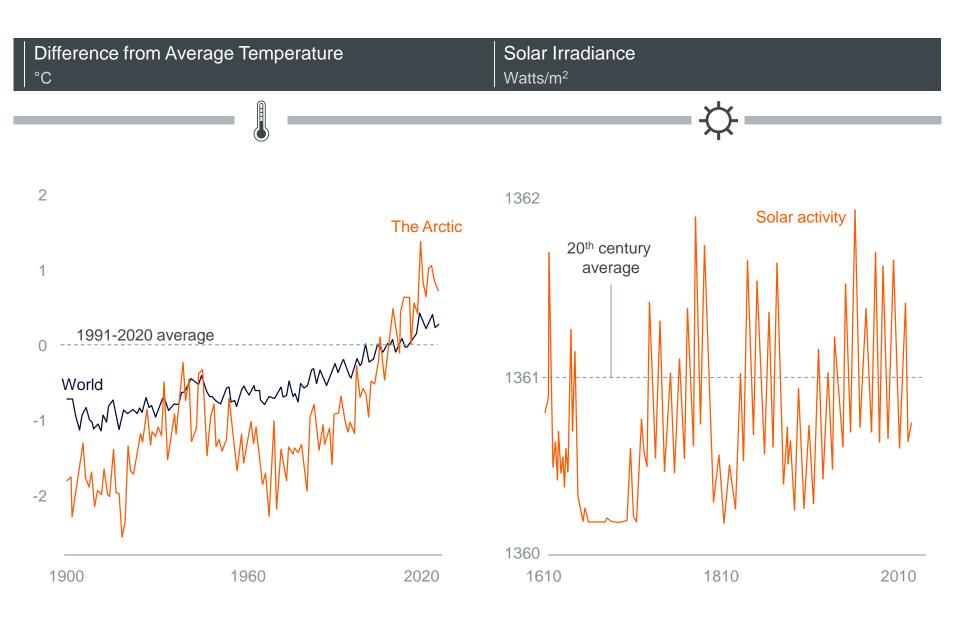


The Constantly Changing Climate



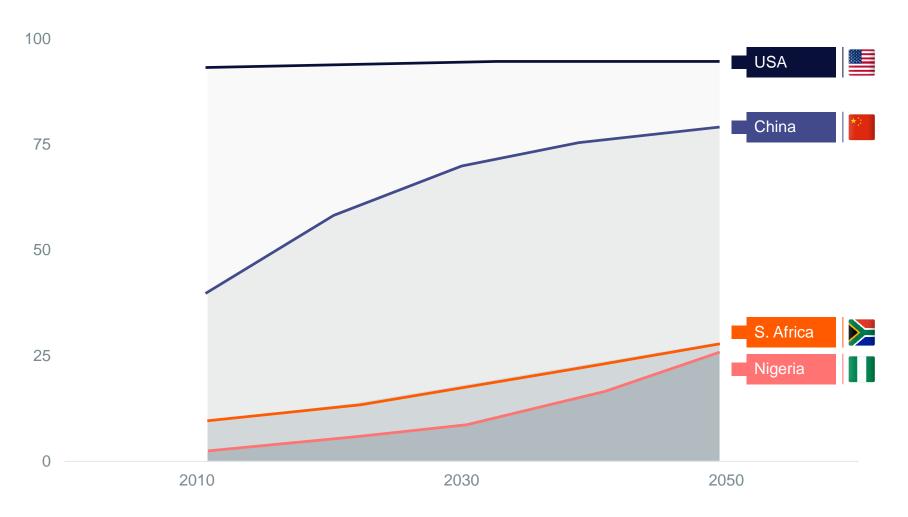
Temperatures in the Arctic Increase Faster



Global Warming Stimulates Energy Demand

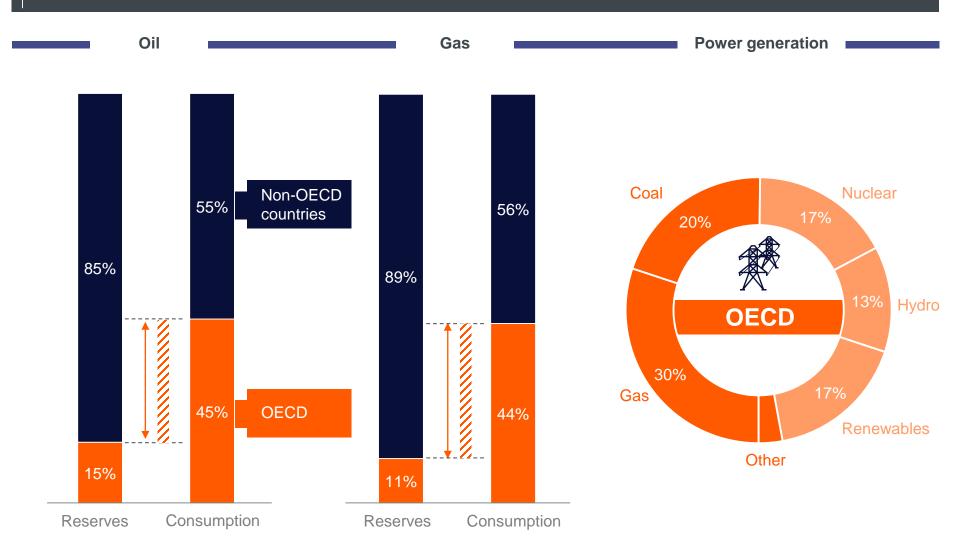
Air Conditioning Coverage

Share of high-income households with air conditioning, % of total



Energy Transition Is Not Backed by Resources and Technologies





Cost of Energy Transition

Total Annual Spending to Achieve Net Zero by 2050 \$

\$9.2trln x 27 years

\$250 trln

by 2050

New spending

3.5 trillionNew low-emissions assets

1.0 trillion

Reallocated to low-emissions assets

2.0 trillion

Continued on low-emissions assets

2.7 trillion

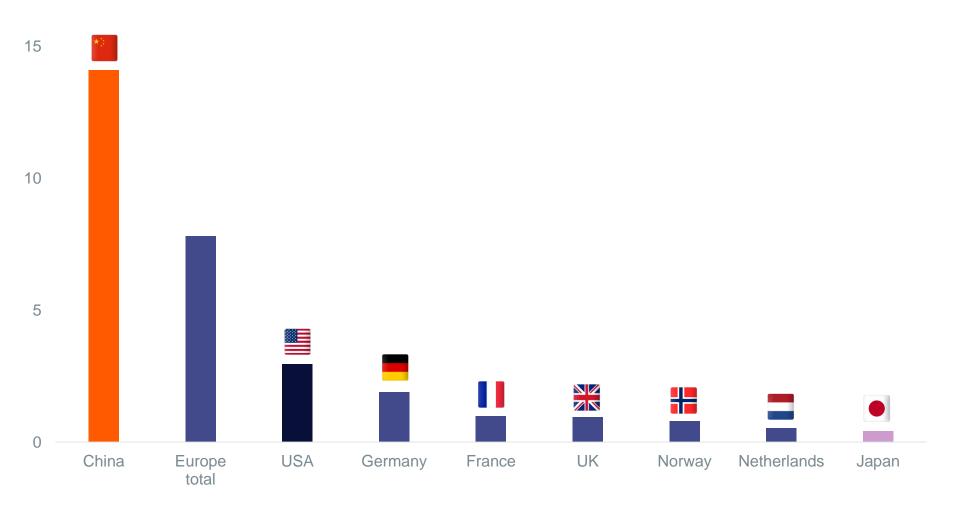
Continued on

high-emissions assets

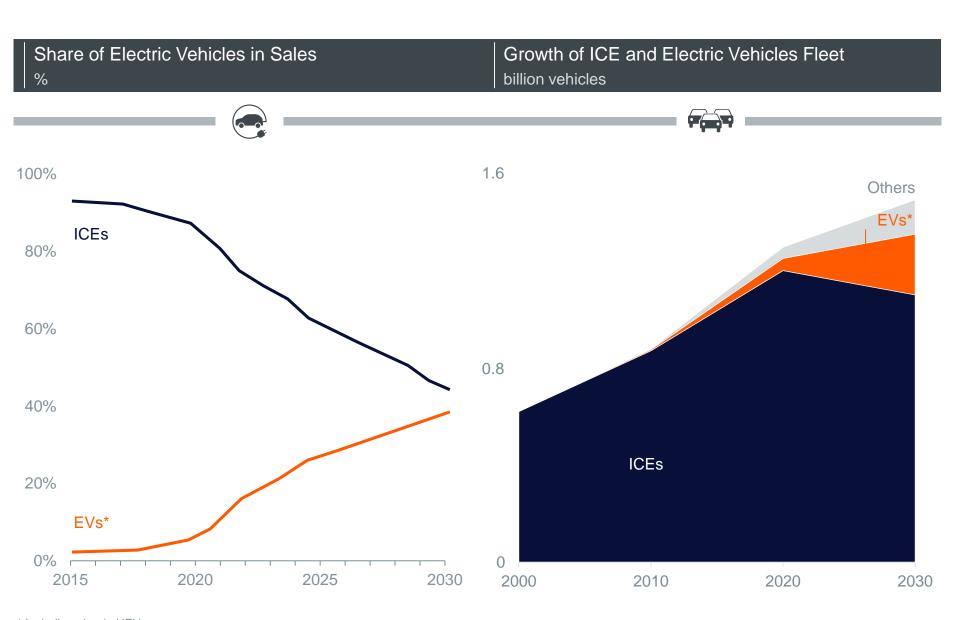
Current spending

EVs Are Still a Privilege

EV Passenger Car Fleet by Countries and Regions million cars

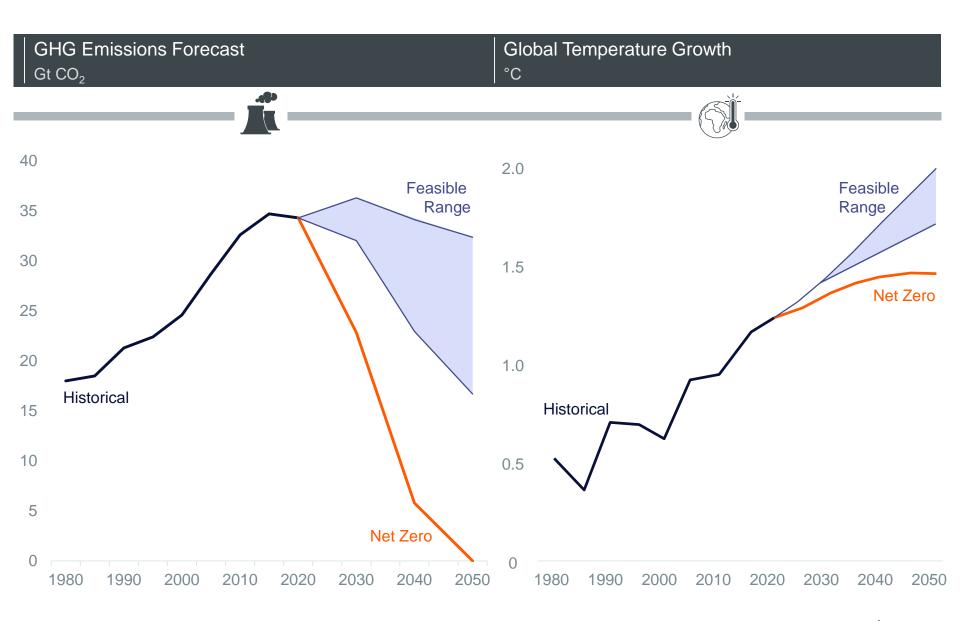


Additional Energy Demand Comes From Transport

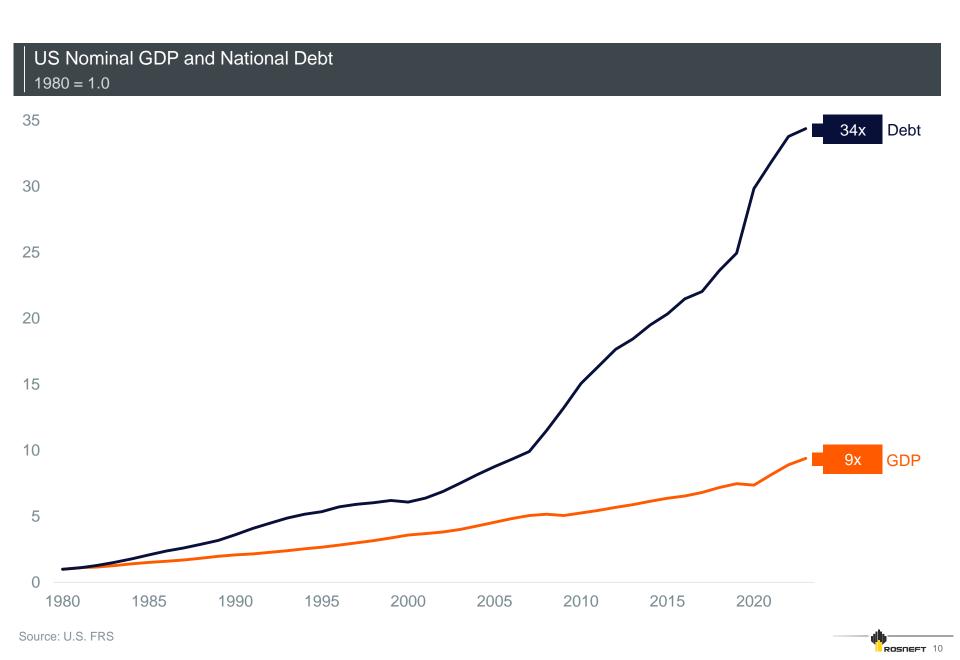


^{*} Including plug-in HEVs Sources: IEA, Bloomberg, Wood Mackenzie

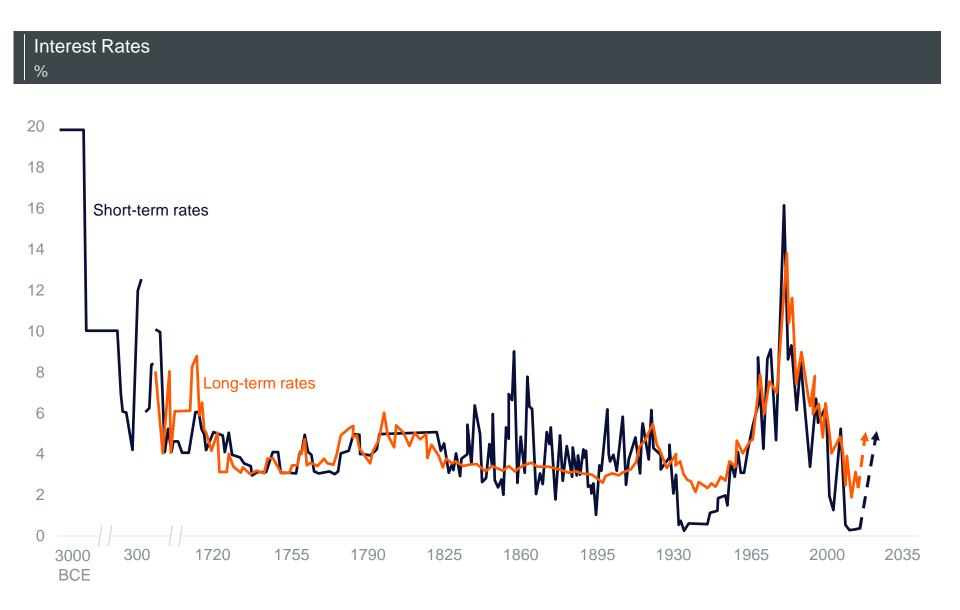
Current State of Technologies Cannot Facilitate Net Zero by 2050



US Debt Default Issues: Deferred Bankruptcy



The Era of Low Interest Rates Has Come to an End



Ways Out of Debt: Inflation, Default or... War

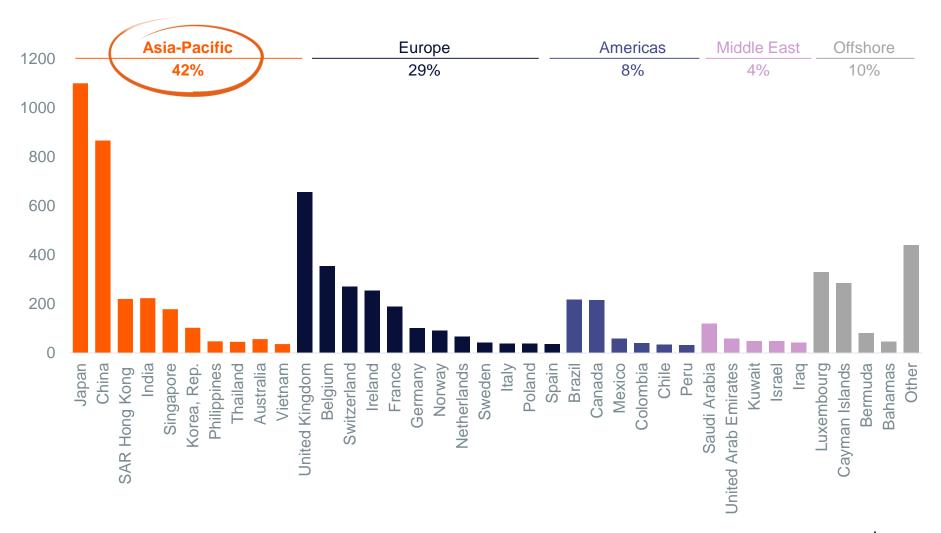
US Federal Debt Held by the Public % of GDP



1843 1853 1863 1873 1883 1893 1903 1913 1923 1933 1943 1953 1963 1973 1983 1993 2003 2013 2023 2033 2043 2053

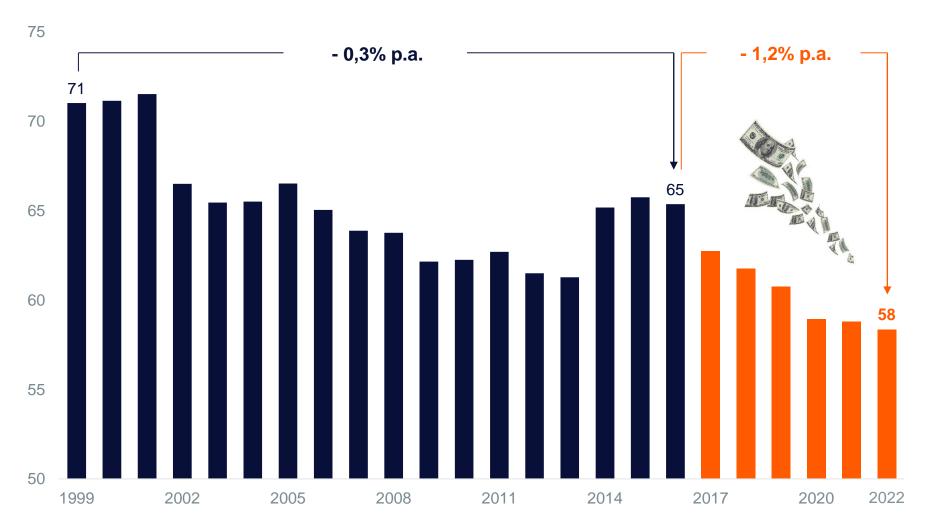
Who is the Major Holder of US Debt?

Foreign Holders of US Treasury Securities Billion USD



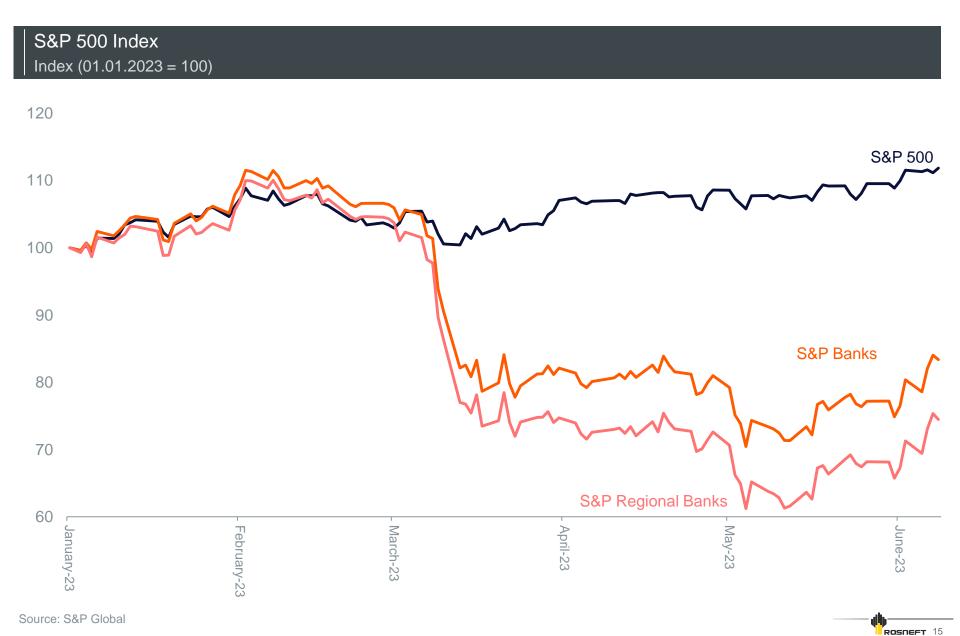
Reserve Currency Decline

Dollar Share in International Gold and Foreign Exchange Reserves



Source: IMF

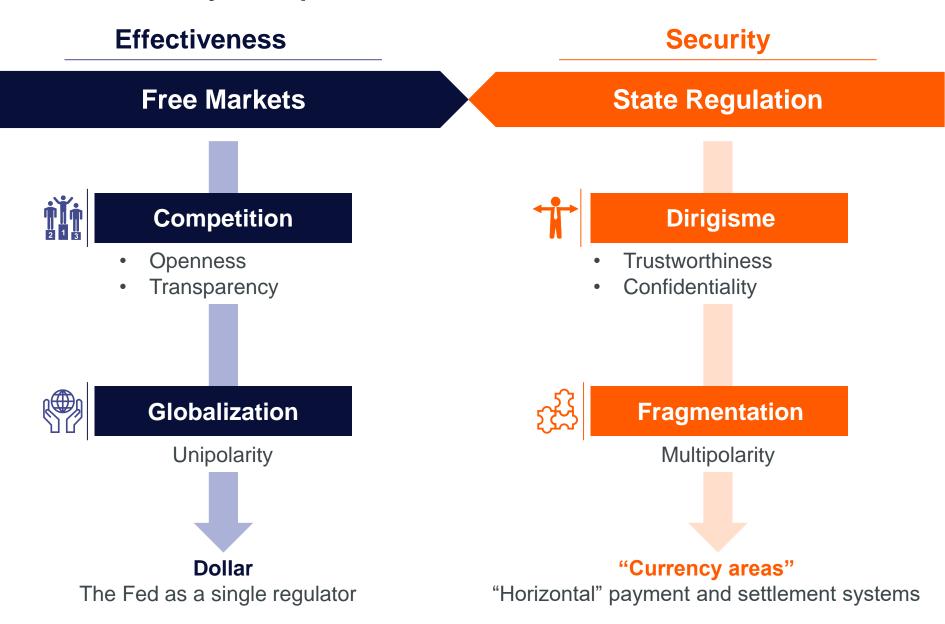
Systemic Risks for US Banking System



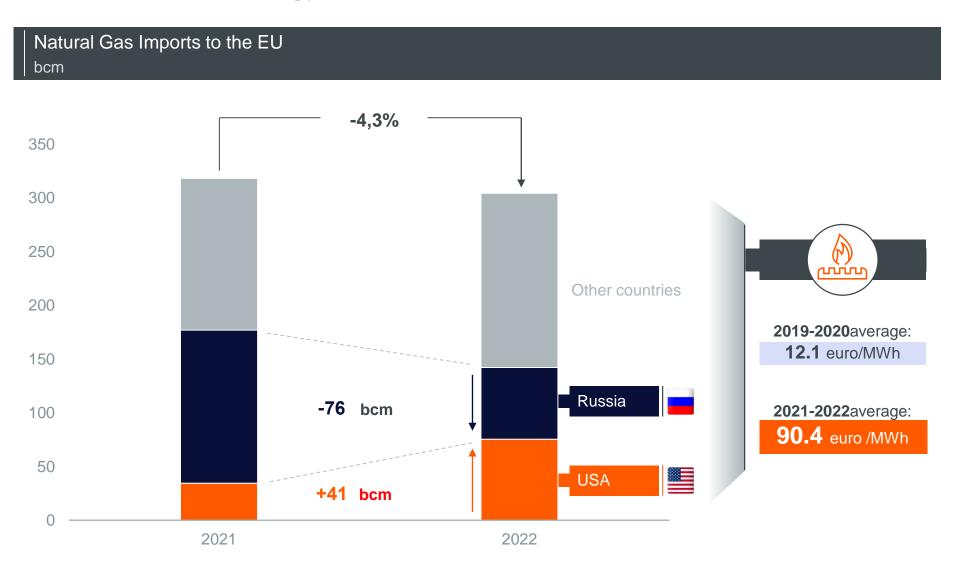
What Will Replace the Dollar?



Market Economy Disruption. State Instead of Market



US Has Successfully Hooked Europe On Its Gas, and Facilitates Closure of EU's Energy-Intensive Industries



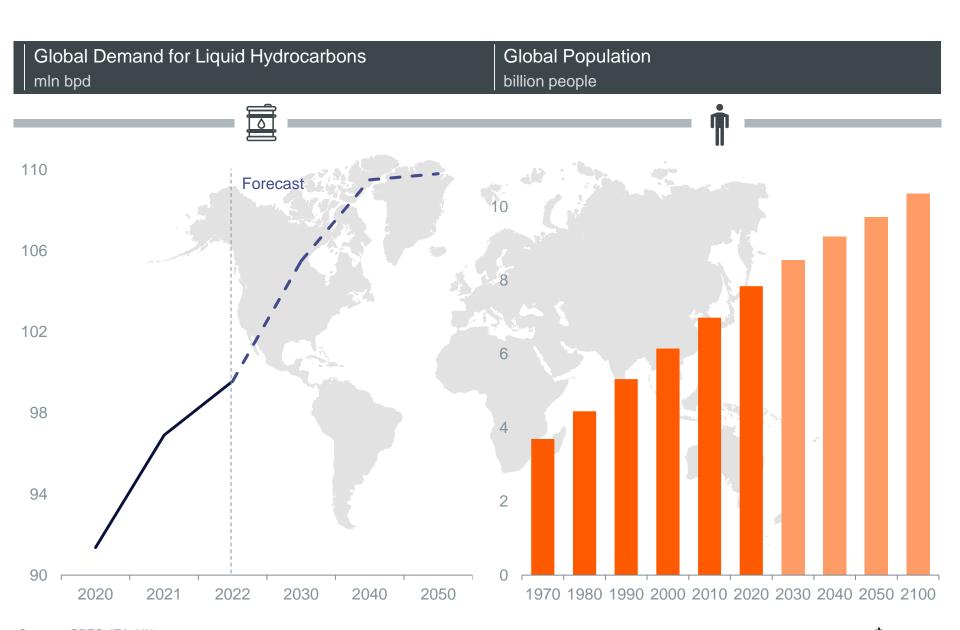
Drop In Gas Prices Is Not Helping to Restore Industrial Growth in Europe

EU Industrial Production and Gas Prices

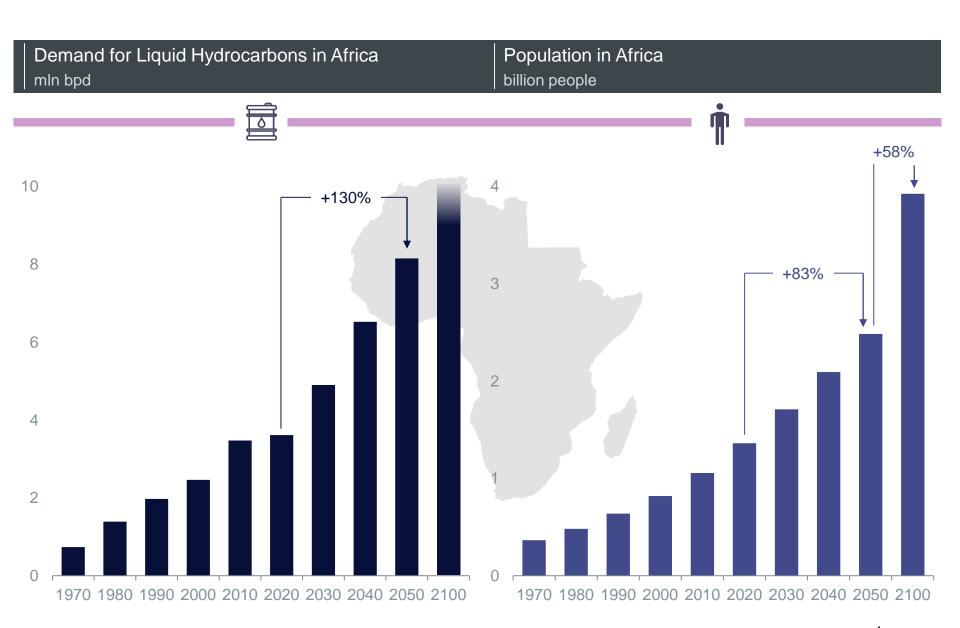
December 2021 = 100%, gas prices in dollars per one thousand cub. m.



Global Oil Demand Continues to Grow

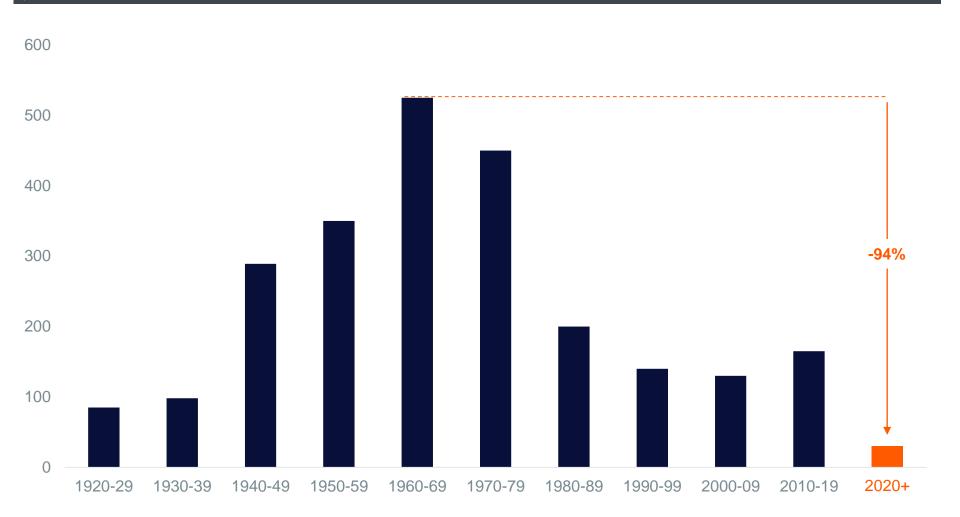


Potential of Demand Growth in Africa

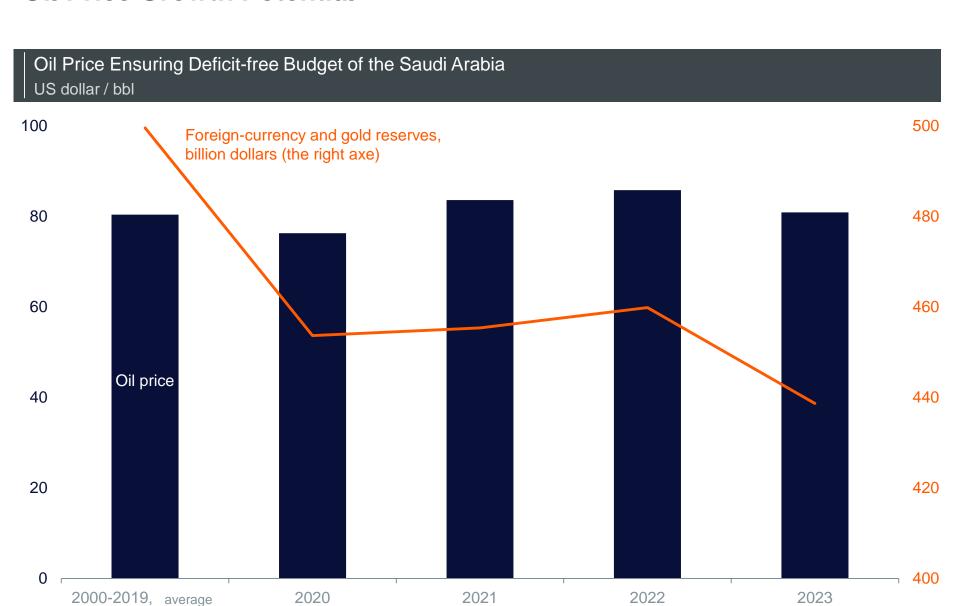


Declining Reserve Replacement Rate

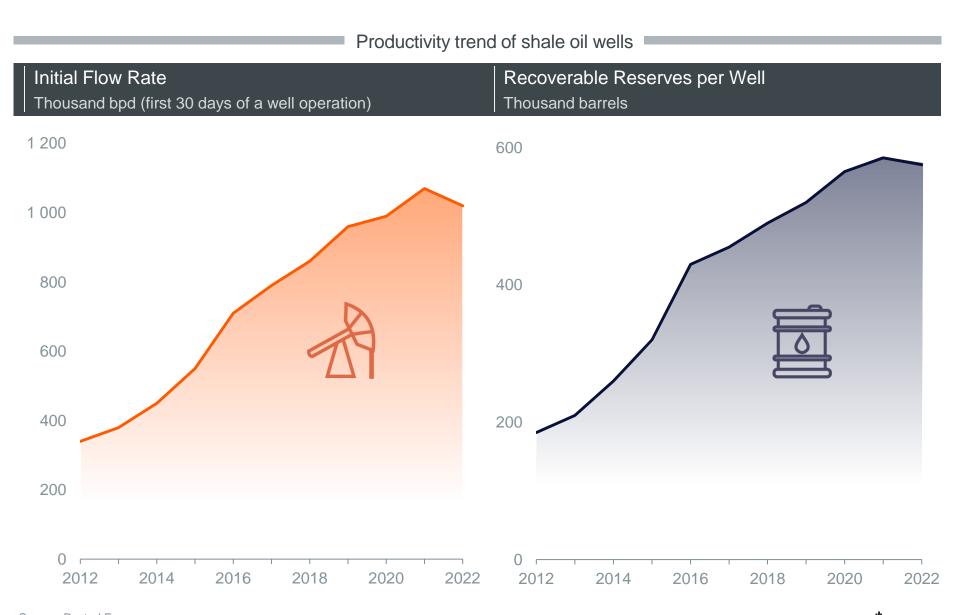
New Liquid Hydrocarbons Reserves Discovered billion boe



Oil Price Growth Potential



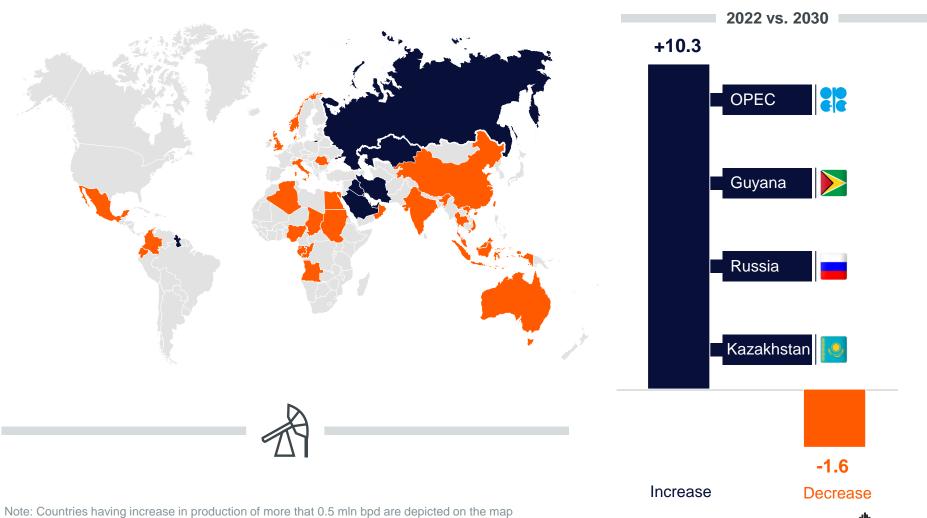
US Production Is About to Plateau



Source: Rystad Energy

Areas of Potential Growth

Incremental Oil Production 2022-2030 mln bpd



Note: Countries having increase in production of more that 0.5 mln bpd are depicted on the map Sources: OPEC, IEA, Wood Mackenzie, S&P Global

Rosneft Is Ready for New Challenges





Based on local stock-exchange quotes Sources: Bloomberg, MOEX

Challenges



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