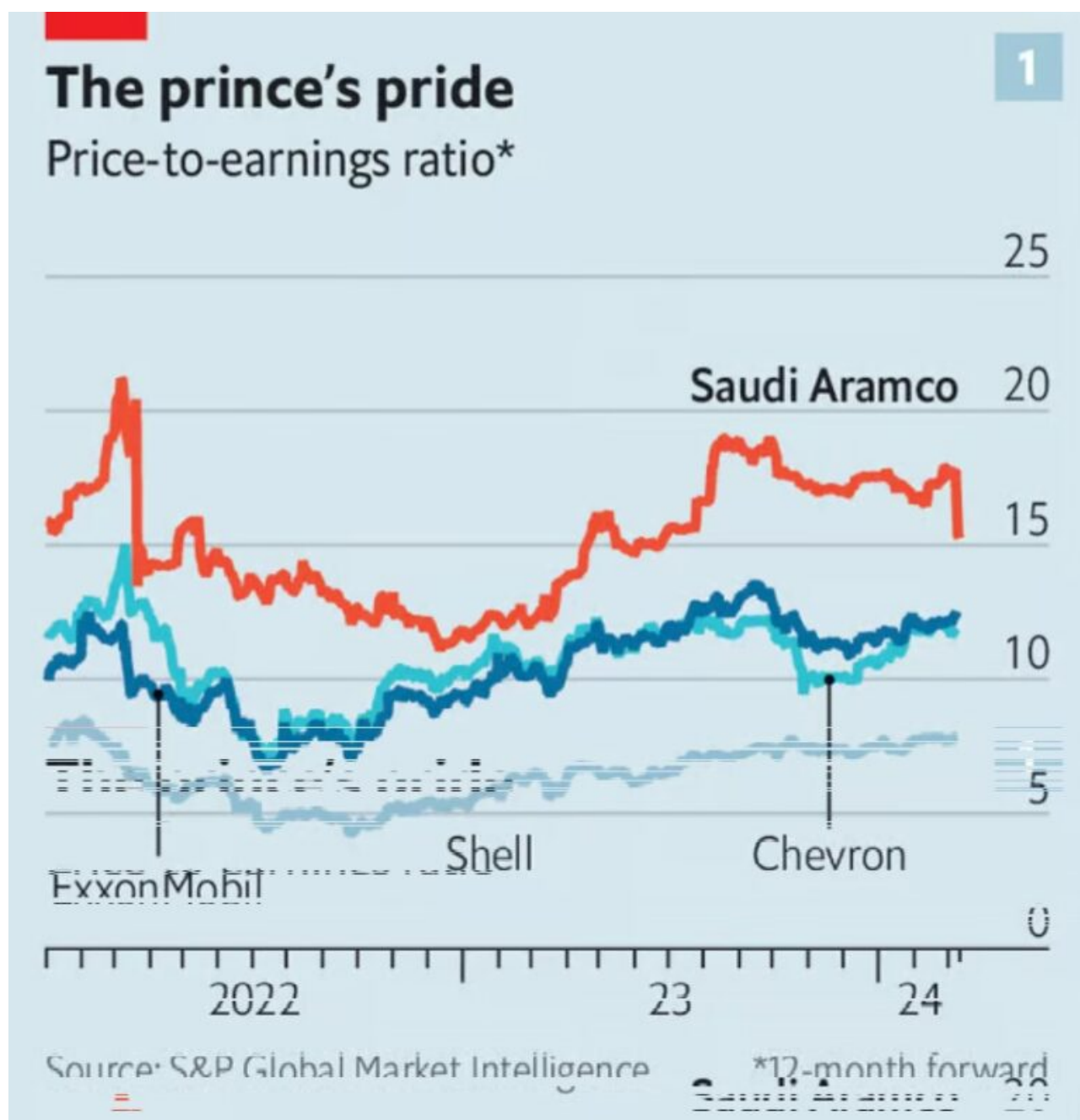
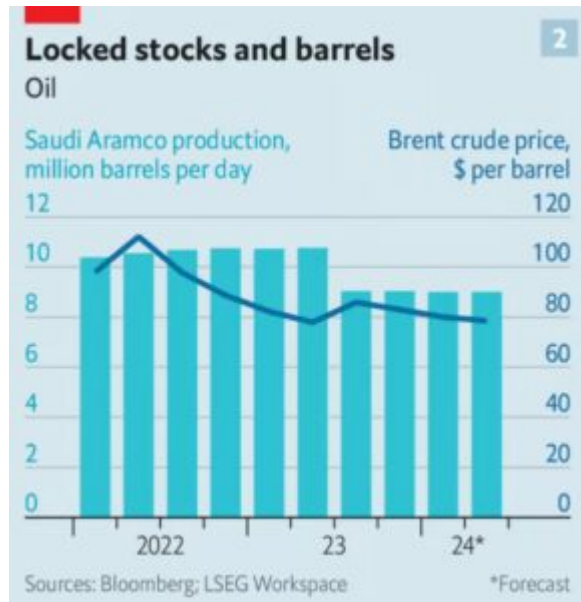


Is Saudi Aramco cooling on crude oil?





Don't bet on it

Has Saudi Arabia stopped believing in a bright future for petroleum? That is the question that in recent weeks has hung over Saudi Aramco. The desert kingdom's national oil goliath has a central position in the world's oil markets. Its market value of \$2trn, five times that of the second-biggest oil firm, ExxonMobil, and its rich valuation relative to profits are predicated in large part on its bountiful reserves of crude and its peerless ability to tap them cheaply and, as oil goes, cleanly (see chart 1). So Saudi Arabia's energy ministry stunned many industry-watchers in January by suspending the firm's long-trumpeted and costly plans for expanding oil-production capacity from 12m to 13m barrels per day (b/d). Was it proof that even the kingpin of oil had finally accepted that oil demand would soon peak and then begin to decline?

To get a hint of Aramco's answer, all eyes turned to its financial results for 2023, reported on March 10th. No one expected a repeat of the year before, when high oil prices and surging demand propelled Aramco's annual net profit to \$161bn, the highest ever for any listed firm anywhere. But analysts and investors were still keenly interested in the extent of the decline in the company's revenue and profit, in any changes to its capital-spending plans and, possibly, in the

unveiling of an all-new strategy.

In the event, profits did fall sharply, from \$161bn in 2022 to \$121bn last year, though that was still the second-best performance in the company's history. Thanks to a recently introduced special dividend, Aramco paid nearly \$100bn to shareholders last year, 30% more than amid the bonanza of 2022. It also promised to hand over even more in 2024.

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image: the economist

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Shovelling a larger chunk of a smaller haul to owners could, on its own, imply that the company is indeed less gung-ho about its oily future. Except that the rich dividend was accompanied by two developments that point in the opposite direction. First, Aramco is rumoured to be preparing a secondary share offering that could raise perhaps \$20bn in the coming months—a move typically associated with expansion rather than contraction. Second, even more tangibly, Aramco is already ramping up capital spending.

Its annual results reveal that investments rose from less than \$40bn in 2022 to around \$50bn last year. In a call with analysts on March 11th Aramco confirmed that the suspension of its planned capacity expansion will save around \$40bn in capital spending between now and 2028. But, it added, that does not mean Aramco is not investing. On the contrary, the aim is to spend between \$48bn and \$58bn in 2025, and maybe more in the few years after that.

A bit of that money will go to clean projects such as hydrogen, carbon capture, renewables and other clean-energy technologies. Some will go to cleanish ones, such as expanding Aramco's natural-gas production by over 60% from its level of 2021 by 2030, and backing liquefied-natural-gas projects abroad. But most is aimed at ensuring that Aramco can maintain its ability to pump up to 12m b/d of crude.

Given the company's actual output of around 9m b/d (see chart 2), this does not compromise its ability to move markets. If anything, it strengthens Aramco's position because it implies spare capacity of 3m b/d—above the company's historic average of 2m-2.5m b/d, according to Wood Mackenzie, a consultancy. The world's biggest oil firm is, in other words, committed both to pumping oil and to preserving Saudi Arabia's role as

the market's swing producer.

That is in part because the company is also committed to pumping money into the economic vision for Saudi Arabia championed by Muhammad bin Salman, the kingdom's crown prince and de facto ruler. This became more evident on March 7th, when Aramco announced the transfer of 8% of its shares, worth \$164bn, out of the hands of the government and into the Public Investment Fund (pif), a vehicle for Saudi sovereign wealth which Prince Muhammad has tasked with diversifying the economy. This leaves the pif with 16% of Aramco, compared with the 2% or so that is owned by minority shareholders and traded on the Riyadh stock exchange (the rest remains directly in the government's hands).

In light of all this, Saudi Arabia's plans to suspend the expansion of production capacity do not reflect a u-turn away from hydrocarbons. Rather, the pause is born of a hard-headed assessment of market realities: a surge in oil production in the Americas, soft demand in China and cuts to output from the opec cartel (of which Saudi Arabia is the most powerful member). As Amin Nasser, Aramco's chief executive, summed it up in the results presentation, "Oil and gas will be a key part of the global energy mix for many decades to come, alongside new energy solutions." And so will Aramco. ■

US gas glut gets hedge funds ultra bearish



LONDON, Feb 26 (Reuters) – Portfolio investors have become extremely bearish about the outlook for U.S. gas prices, even though prices have already fallen to their lowest level in real terms since futures began trading in 1990.

Hedge funds and other money managers sold the equivalent of 399 billion cubic feet (bcf) in the two major futures and options contracts linked to prices at Henry Hub in Louisiana over the seven days ending on Feb. 20.

Fund managers have been net sellers in each of the most recent five weeks, selling 2,085 bcf since Jan. 16, according to position reports filed with the U.S. Commodity Futures Trading Commission.

As a result, the combined position has been reduced to a net short of 1,675 bcf (3rd percentile for all weeks since 2010) down from a net long of 410 bcf (42nd percentile) in the middle of January.

The gas market has been chronically oversupplied in recent months, with inventories 436 bcf (+21% or +1.26 standard deviations) above the prior 10-year seasonal average on Feb. 16.

The surplus has swelled consistently since the start of the winter heating season on Oct. 1, when it was just 64 bcf (+2% or +0.24 standard deviations).

Chartbook: Gas and oil positions, opens new tab

Exceptionally strong El Niño conditions over the Pacific ensured temperatures have been mostly above average across the major population centres of the northern United States.

Domestic gas production has continued to increase, in spite of the relatively low prices, adding to the burgeoning surplus of gas in storage.

The rig count for gas has actually increased marginally since September 2023 as producers have been unresponsive to falling prices until the last few weeks.

In addition, more associated gas is being produced as a co-product of drilling for oil, where prices are close to the long-term inflation-adjusted average and drilling rates are steady.

From a purely positioning perspective, the balance of risks must lie to the upside, with real prices at multi-decade lows and lots of short positions that must eventually be repurchased.

Short positions have only ever been greater in the first quarter of 2020, when stocks were at record levels and the economy was bracing for the arrival of the first wave of the coronavirus epidemic.

So there is potential for a huge short-covering rally if and when the news flow becomes more positive and inventories start to erode.

But hedge fund managers have tried and failed to identify the turning point three times in the last twelve months and been forced to retreat each time.

Bloated gas stocks in Europe and Japan after the price spike of 2021/22 will make it hard for the market to rebalance via increased exports.

Many analysts now expect the rebalancing to be postponed until the winter of 2024/25 with prices likely to remain suppressed until nearer then.

PETROLEUM

Investors continued to add to their position in petroleum-related futures and options over the seven days ending on Feb. 16, but at a slower rate than in previous weeks.

Hedge funds and other money managers purchased the equivalent

of 17 million barrels in the six most important petroleum-linked futures and options contracts.

All the buying was concentrated in NYMEX and ICE WTI (+29 million barrels) with small sales in Brent (-4 million), European gas oil (-4 million), U.S. diesel (-4 million) and U.S. gasoline (-1 million).

Even after the recent buying, positions in WTI remain the most bearish of any of the major oil contracts, weighed down by the continued rise in domestic oil production, even as OPEC restricts Middle East supplies.

The net position in NYMEX and ICE WTI of 109 million barrels is still in only the 8th percentile for all weeks since 2013.

That compares with net positions in Brent, gasoline and the distillates contracts all between the 60th and 70th percentiles.

WTI buying seems to have been motivated by unwinding previous bearish short positions (-17 million barrels) and cautious initiation of new longs (+13 million).

Crude inventories around the NYMEX WTI delivery point at Cushing in Oklahoma are still 14 million barrels (-32% or -1.14 standard deviations) below the prior 10-year seasonal average. Despite an extended shutdown of BP's refinery at Whiting in Indiana, Cushing stocks have increased only slightly in the last two weeks, underscoring the risk of a squeeze on deliverable supplies.

With positioning so bearish, the balance of risks lies to the upside; some fund managers have begun to cut short positions and get long accordingly.

G20 finance meeting to set aside geopolitics, focus on economics



With their countries deeply divided over Israel's attacks on Gaza, finance officials from the Group of 20 major economies are poised to set aside geopolitics and focus on global economic issues when they meet in Sao Paulo, Brazil this week.

Brazil, keen to ensure a productive session that delivers consensus on key economic priorities, has proposed a much shorter closing statement than seen in recent years – a move already negotiated with other members, according to a Brazilian government source and two sources familiar with the draft.

The South American country is the current G20 president.

The latest draft, still being finalized, mentions the risks of global fragmentation and conflicts in general terms but omits any direct reference to Russia's invasion of Ukraine or the Israel-Gaza war, the sources said.

Finance officials and central bankers from the U.S., China, Russia and the world's other largest economies will meet in Sao Paulo to review global economic developments at a time of

slowing growth, the growing strains of record debt burdens, and worries that inflation may not yet be tamed, which are keeping interest rates high.

The International Monetary Fund last month said the chance of a “soft landing” in which inflation falls without triggering a painful global recession had increased, but warned that overall growth and global trade remained lower than the historical average.

Russia’s invasion of Ukraine almost exactly two years ago roiled the G20, exposing long-simmering fault lines within the group and thwarting efforts by G20 officials to reach consensus on a final statement, or communique, after their meetings.

India and Indonesia, which held the G20 presidency before Brazil, opted for chair statements summarizing areas of agreement and noting dissenting voices – namely Russia – but even that could prove difficult given the bitter divisions over the four-month war in Gaza. The war erupted when the ministers last met in Marrakech, Morocco in October, intensifying divisions between the United States and its Western allies, and non-Western countries in the G20.

Brazil, Saudi Arabia and South Africa have been outspoken critics of Israel’s relentless assault on Gaza since the Oct. 7 surprise attack in which Palestinian Islamist group Hamas killed around 1,200 people and seized 253 hostages, one G7 source said. The retaliatory attacks have killed more than 29,000 Palestinians, according to the Gaza health ministry.

The U.S., meanwhile, last week vetoed a draft United Nations Security Council resolution on the Israel-Hamas war, blocking a demand for an immediate humanitarian ceasefire and pushing instead for a temporary ceasefire linked to the release of the remaining hostages held by Hamas.

The deep differences over Gaza necessitated a different

approach this year, the Brazilian official said, adding, "If the topic is included, there will be no consensus."

To prevent differences over Gaza from derailing progress on economic issues, Brazil proposed a shorter statement with no specific mention of either war. Washington argued against language holding Israel accountable, which South Africa and others had argued was needed if the statement mentioned and condemned Russia's war against Ukraine, a G7 source said.

G7 finance officials, also meeting in Sao Paulo, will be forceful in their condemnation of Russia and its war, a second G7 source said.

'BROADER ETHOS'

Brazil wants to focus this week's discussions on ending inequality and hunger, reforming international taxation, addressing sovereign debt distress and working toward sustainable development. Reforms of multilateral banks and climate finance will feature more prominently at the spring meetings of the IMF and World Bank in Washington in April, the Brazilian source and a G20 source said.

Mark Sobel, the U.S. chair of the Official Monetary and Financial Institutions Forum (OMFIF), said stripping geopolitics from the communique made sense for a group that had historically focused on economic and financial issues.

"Yes, it reflects fractiousness, but it also reflects this broader ethos of the finance ministers and central bankers to focus on economic and financial matters in a technical way," he said.

One G7 official said the statement would likely be "concise and ambiguous, only mentioning issues where there's no contention."

U.S. Treasury Secretary Janet Yellen plans to underscore the

importance of the G20 body, highlighting collaborative efforts to address global challenges such as sovereign debt and the COVID-19 pandemic, a senior U.S. official said.

Yellen will meet with Brazilian Finance Minister Fernando Haddad to celebrate 200 years of U.S.-Brazil relations, an event the Brazilian official said was designed to highlight the South American country's "interest in not embracing a divisive approach, but focusing on constructive efforts."

One unresolved issue is to what extent the U.S., Japan and Canada will prevail in demanding a mention of the economic impacts of geopolitical conflicts in the communique, the first Brazilian official said.

But the failure of G20 foreign ministers to include the issue sent a strong signal, the official said.

"The outcome of the sherpas meeting strengthens our understanding that the topic (of geopolitics) should not be included in the communique."

Eric Pelofsky, a former senior U.S. official now with the Rockefeller Foundation, said there was value in meeting in configurations like the G20, despite clear differences.

"Sometimes talking without success is still talking. Maybe that means that at the end of the day, somebody has a coffee that they weren't supposed to have and they find a bit of common ground that they weren't supposed to know existed."

Source: Reuters

Ras Laffan petchem complex to reinforce qatar's position in global petrochemical industry



Ras Laffan petchem complex to reinforce Qatar's position in global petrochemical industry.

Qatar's strong position in the global petrochemical industry will be further enhanced with the \$6bn Ras Laffan Petrochemical Complex, one of the largest in the world, will start production by the end of 2026.

By then, Qatar's overall petrochemical production capacity is estimated to touch 14mn tonnes a year.

The Ras Laffan Petrochemical Complex is Qatar Energy's largest investment ever in Qatar's petrochemical sector, and marks an important milestone in the country's downstream expansion strategy.

The petrochemical complex will not only facilitate further

expansion in Qatar's downstream and petrochemical sectors, but will also reinforce the country's integrated position as a major global player in the upstream, LNG and downstream sectors.

The Ras Laffan Petrochemicals complex consists of an ethane cracker with a capacity of 2.1mn tonnes of ethylene per year. The 435 -acre project site also includes two polyethylene trains with a combined output of 1.7mn tonnes per year of high-density polyethylene (HDPE) polymer products. His Highness the Amir Sheikh Tamim bin Hamad al-Thani laid the foundation stone for the Ras Laffan Petrochemical Complex on February 19.

QatarEnergy has joined hands with Chevron Phillips Chemical Company (CPChem) on the project and created a joint venture, in which QatarEnergy will own a 70% equity share, and CPChem 30% stake.

In a few years, the Ras Laffan petrochemicals complex will help meet the rising global demand for high-density polyethylene, when the largest ethane cracker in the Middle East and one of the largest in the world begins production.

Polyethylene is used in the production of durable goods like pipe for natural gas and water delivery and recreational products such as kayaks and coolers. It is also used in packaging applications to protect and preserve food and keep medical supplies sterile.

The facility will be constructed with modern, energy-saving technology and use ethane for feedstock, which along with other measures, is expected to result in lower greenhouse gas emissions than similar global facilities.

The integrated olefins and polyethylene facility will be utilising "state-of-the-art design and technology" during its construction and operation to promote energy efficiency.

It is important to stress the unique environmental attributes of this world-scale complex. It will have lower waste and greenhouse gas emissions, when compared with similar global

facilities.

The Ras Laffan Petrochemicals Complex will be utilising “state-of-the-art design and technology” during its construction and operation to promote energy efficiency.

The world-class construction, operation, and technology standards planned at the complex are all designed to ensure energy savings, and significant reduction of emissions and hydrocarbon waste compared with similar global facilities. HE the Minister of State for Energy Affairs Saad bin Sherida al-Kaabi said: “Our two companies (Qatar Energy and Chevron Phillips Chemical Company) are making sure we buy and implement the best technology available to reduce emissions. In the last 20 years or so, there has been a huge leap in emissions reduction and energy use. Wherever we can recycle, we will;’ Ras Laffan Petrochemical Complex will also have multiplier effects on Qatar’s economy as it is expected to generate significant economic benefits for the country including increased tax revenue and foreign investment.

QatarEnergy drills 20+ appraisal wells past 10 years; confirms huge increase in NF gas reserves

The drilling of more than 20 appraisal wells in the past 10 years using state-of-the-art technologies has confirmed significant increase in North Field (NF) gas reserves, to

more than 2,000 trillion cubic feet, said HE the Minister of State for Energy affairs, Saad Sherida al-Kaabi.

Addressing a press conference at the QatarEnergy headquarters yesterday, al-Kaabi said, "I want to specifically mention the tireless work over the past two decades to evaluate the giant North Field and unlock its potential, especially in sectors that were not covered extensively by previous drilling and evaluation work."

Most recently, QatarEnergy has focused its efforts and attention on determining how far west the North Field extends in order to evaluate the production potential from those areas.

"We have continued geological and engineering studies and have drilled a number of appraisal wells in that area.

"I am pleased to announce today that, praise be to God, these great efforts have confirmed, through technical tests of the appraisal wells, the extension of the North Field's productive layers further towards the west, which means the ability to produce significant quantities of gas from this new sector.

"Recent studies have shown that the North Field contains huge additional gas quantities in the North Field estimated at 240tn cubic feet, which raises Qatar's gas reserves from 1,760tn cubic feet to more than 2,000tn cubic feet, and the condensates reserves from 70 to more than 80bn barrels, in addition to large quantities of liquefied petroleum gas, ethane, and helium."

Al-Kaabi noted, "These are very important results of great dimensions that will take Qatar's gas industry to new horizons, as they will enable us to begin developing a new LNG project from the North Field's western sector with a production capacity of about 16 MTPY.

"As such, Qatar's total LNG production will reach about 142MTPY when this new expansion is completed before the end of this decade. This represents an increase of almost 85% compared to current production levels. With the completion of this project, Qatar's total hydrocarbon production will

exceed 7.25mn barrels of oil equivalent per day.”

The minister revealed that QatarEnergy will immediately commence the basic engineering works necessary to ensure that the planned progress is achieved according to the approved schedule for this new project, which will be called the ‘North Field West’.

“These expansion project, which we are working to implement, aim to achieve optimal utilisation and management of our natural resources with the aim of contributing to what our wise leadership aspires to in terms of ensuring the economic and social well-being of current future generations of Qatar as articulated by the Qatar National Vision 2030.

“At the same time, these projects reaffirm QatarEnergy’s commitment to reinforce its global leadership in the production and supply of LNG and live up to its commitment to provide an economic, safe and reliable energy source, giving priority to environmental sustainability for a more prosperous and brighter future.”

Minister al-Kaabi also expressed his sincere thanks and gratitude to His Highness the Amir, Sheikh Tamim bin Hamad al-Thani for his wise leadership and guidance, and the unlimited support of Qatar’s energy sector.

Lessons from euro’s first 25 years



Jan 31, 2024 MARCO BUTI and GIANCARLO CORSETTI

Prior to the introduction of the European single currency in January 1999, its architects foresaw a future of macroeconomic stability and accelerated growth. While the euro has delivered on some of these promises, it has failed to facilitate the continent's economic and political integration.

FLORENCE – The 25th anniversary of the euro's introduction, which has passed largely under the radar, offers an opportune moment to assess the current state of the greatest monetary experiment in modern history.

The euro's launch in January 1999 polarized economists. In the face of much skepticism – the late American economist Martin Feldstein even argued that the single currency could trigger a war in Europe – the euro's architects envisioned a future characterized by macroeconomic stability, anchored by an independent central bank and a fiscal framework geared toward stability. Structural reforms, which the European Union's member states were expected to implement, were meant to enhance the monetary union's capacity to adjust to shocks.

None of those scenarios materialized. Over the past quarter-century, the euro has shown extraordinary resilience, navigating through several critical challenges and defying

early predictions of its collapse. But while the single currency has delivered on some of its promises – most notably, maintaining price stability for most of its existence – it has failed to boost Europe's potential growth or facilitate the continent's full economic and political integration.

This mixed record can be attributed largely to the fact that Europe's economic union was incomplete from the outset. Despite the significant progress that has been made since its inception, the eurozone's fiscal and economic frameworks remain woefully underdeveloped compared to its monetary infrastructure.

To understand the consequences of the eurozone's unfinished architecture, it is useful to divide the past 25 years into four distinct periods. The first phase, from 1999 to 2008, could be labeled the "2% decade": economic growth, inflation, and budget deficits (as a share of GDP) all hovered around this rate. This phase was characterized by the excessive optimism of the "Great Moderation."

But the internal imbalances that emerged during this period would haunt the eurozone for years to come. The convergence of interest rates, evidenced by minimal spreads, resulted in overly sanguine portrayals of member states' public finances. Simultaneously, loose fiscal and monetary conditions reduced European governments' incentives to undertake structural reforms and bolster their banking systems.

Nominal convergence also masked more profound structural disparities, as capital flowed from the eurozone's richest members to their poorer counterparts, where it was frequently channeled into less productive sectors, such as real estate and non-tradable services, often through instruments like short-term bank loans. Consequently, while the eurozone's current accounts appeared balanced, significant imbalances emerged.

The fallout from the 2008 global financial crisis, particularly the discovery that Greece had lied about its budget deficits and debt, eroded trust among member states. The prevailing narrative shifted to one of moral hazard, emphasizing the need for each country to get its own house in order. By the time eurozone governments finally coordinated a response – establishing the European Stability Mechanism (ESM), launching the banking union project, introducing the European Central Bank's Outright Monetary Transactions program, and expanding the ECB's balance sheet – the euro appeared to be on the brink of collapse.

The key turning point was the pledge by then-ECB President Mario Draghi to do "whatever it takes" to preserve the euro in July 2012. But with monetary policy increasingly viewed as the "only game in town," the eurozone's economic and financial structures remained fragmented.

The COVID-19 crisis changed that. The exogenous nature of the pandemic shock, together with the lack of impending elections, enabled EU leaders – led by French President Emmanuel Macron, then-German Chancellor Angela Merkel, and European Commission President Ursula von der Leyen – to present a unified front, unencumbered by the pressure to avoid moral hazard. The EU suspended the Stability and Growth Pact, which had previously capped member states' budget deficits at 3% of GDP, and rolled out the Support to mitigate Unemployment Risks in an Emergency and the NextGenerationEU recovery programs, financing both through common borrowing. Meanwhile, the ECB introduced its €1.85 trillion (\$2 trillion) Pandemic Emergency Purchase Program.

Although this demonstration of collective leadership reassured markets, fueling an economic rebound, the optimism proved to be short-lived. A global inflationary surge, fueled by robust macroeconomic stimulus and pandemic-related supply-chain disruptions, was exacerbated by the energy-price shock that followed Russia's full-scale invasion of Ukraine. Although

European policymakers worked together to reduce the EU's dependence on Russian gas, they failed to mount a collective response akin to the NextGenerationEU initiative. Confronted with rising deficits and debt, not to mention the most aggressive monetary-tightening cycle since the 1980s, EU countries have once again put eurozone reforms on hold.

Two important lessons follow from the euro's first 25 years. First, the monetary union's incomplete institutional framework has proven to be both costly and dangerous. Finalizing the banking union, especially the creation of a common resolution fund with the backstop of the ESM and deposit insurance, is essential to ensure stability and bolster the international role of the euro. Thus, Italy's recent failure to ratify the ESM treaty is a serious setback. Pushing forward the capital market union is essential if Europe is to meet the financial challenges posed by the digital and green transitions. To achieve all of this, EU leaders must strike a balance between risk sharing and risk reduction.

Second, completing the euro is crucial for safeguarding and developing the EU's greatest achievement: the single market. European countries' current pursuit of national industrial policies, funded through state aid, undermines the core values of the single-market project. To address this challenge, the EU must formulate a cohesive European industrial policy. This should include an increase in cross-border investments, focusing on European public goods such as human-capital development, the availability of critical materials, and the green and digital transitions.

After the fall of the Berlin Wall, German Chancellor Helmut Kohl, French President François Mitterrand, and European Commission President Jacques Delors turned the dream of a single currency into a reality. During the COVID-19 crisis, Macron, Merkel, and von der Leyen managed to overcome seemingly insurmountable obstacles and achieve a historic breakthrough. Now, a quarter-century after its introduction,

the euro requires visionary leaders to shepherd European sovereignty to its next phase.

This article draws on the CEPR Policy Insights February 1, 2024, paper “The First 25 Years of the Euro,” written under the auspices of the European University Institute’s Economic and Monetary Union Laboratory (EMU Lab).

Greenland’s ice loss surges: Satellite data shows alarming retreat



Aggravating concerns about global warming and its consequences, a new, comprehensive analysis of satellite data has found Greenland has lost more ice than previously

estimated and that the majority of glaciers on the landmass have retreated significantly. The Greenland Ice Sheet has shed about one-fifth more ice mass in the past four decades than previously estimated, researchers at Nasa's Jet Propulsion Laboratory in Southern California reported in a new paper. Icebergs are falling into the ocean at an accelerating rate. Though this additional ice loss has had only an indirect impact on sea levels, it could hold implications for ocean circulation in the future.

Published in *Nature* on January 17, the analysis offers a comprehensive look at retreat around the edges of the entire ice sheet from 1985 to 2022, drawing from nearly a quarter million pieces of satellite data on glacier positions. Of the 207 glaciers in the study, 179 retreated significantly since 1985, 27 held steady, and one advanced slightly. Most of the ice loss came from below sea level, in fjords on Greenland's periphery. Once occupied by ancient glacial ice, many of these deep coastal valleys have filled with seawater – meaning the ice that broke off made little net contribution to sea level. But the loss likely accelerated the movement of ice flowing down from higher elevations, which in turn added to sea level rise.

"When the ice at the end of a glacier calves and retreats, it's like pulling the plug out of the fjord, which lets ice drain into the ocean faster," said Chad Greene, a glacier scientist at JPL and the study's lead author. For decades researchers have studied the Greenland Ice Sheet's direct contributions to global sea level rise through ice flow and melting. Scientists participating in the international Ice sheet Mass Balance Inter-comparison Exercise (IMBIE) estimated that the ice sheet had lost 5,390 billion tonnes between 1992 and 2020, adding about 13.5 millimetres to global mean sea level, according to the Intergovernmental Panel on Climate Change. But the IMBIE measurements do not account for ice lost due to the retreat of terminal glaciers along the edges of Greenland. (These glacier edges were already in the water, whether submerged or floating.) The new study quantifies this

amount: For the 1985 to 2022 period in the new paper, the ice sheet was estimated to have lost about 1,140 billion tonnes – 21% more mass lost than in the IMBIE assessment.

Although it doesn't add to sea levels, the additional ice represents a significant influx of fresh water to the ocean. Recent studies have suggested that changes in the salinity of the North Atlantic Ocean from melting icebergs could weaken the Atlantic Meridional Overturning Circulation, part of the global "conveyor belt" of currents that transport heat and salt around the ocean. This could influence weather patterns worldwide, as well as affect ecosystems, the authors said.

Icebergs have tumbled from Greenland's glaciers for thousands of years as part of a natural cycle that typically balanced glacier growth in the winter with melting and retreat in the summer. The new study finds that ice retreat has far outpaced growth throughout the 21st century. The researchers also found that Greenland's ice extent remained relatively steady from 1985 to 2000, then started a marked recession that continues to this day.

The data showed a glacier in northeast Greenland called Zachariae Isstrom lost the most ice, dropping 176 billion tonnes of mass due to retreat. It was followed by Jakobshavn Isbrae on the western coast, which lost an estimated 97 billion tonnes and Humboldt Gletscher in the northwest, which lost 96 billion tonnes. Only one glacier, Qajuuttap Sermia in southern Greenland, experienced any growth over the study period, but its gains were too small to offset the losses from other glaciers.

The researchers also found that glaciers with the largest seasonal fluctuations in the position of their ice front experienced the greatest overall retreat. The correlation suggests the glaciers that are most sensitive to warming each summer will be most impacted by climate change in the coming decades.

Developing Countries Need Debt Relief to Act on Climate Change



While developed economies have pledged to increase climate financing sharply by 2030, developing-economy policymakers are struggling to cover the costs of action. With medium-term strategies being used to address a short-term threat, progress on the green transition will be undermined, with potentially catastrophic implications.

WASHINGTON, DC/PARIS – If developing economies found it hard to manage their debts in 2023, they are likely to face even more formidable challenges this year. Though most possess relatively small debt stocks and are not considered insolvent, many are in dire need of liquidity. As long as this remains true, they will struggle not only to manage their debts, but also to invest in the green transition.

Developing economies have faced a series of external shocks in

recent years, including the COVID-19 pandemic, war-related disruptions of food and energy supply chains, and an uptick in global inflation. Moreover, their access to capital markets has been curtailed, preventing them from rolling over maturing loans, as they would do in normal times. As a result, countries have been forced to channel a large share of their tax and export revenues to service their debt, avoiding default at the cost of priorities like infrastructure investment, social-welfare programs, and climate action.

The outlook for these countries is likely to worsen in the next few years. According to estimates by the Finance for Development Lab (FDL), large debt payments are coming due in 2024 and 2026 for at least 20 low- and lower-middle-income countries. As countries hit this “debt wall,” their already fragile fiscal positions will deteriorate further. This does not bode well for climate action.

Climate change is not some distant menace; its effects are already being felt worldwide, especially in climate-vulnerable developing economies. But international summits on the topic last year sent a disappointing message: while developed economies pledged to increase climate financing by 2030, developing-economy policymakers are struggling against severe fiscal constraints. With medium-term strategies being used to address a short-term threat, developing and emerging economies have been expressing frustration, including at the Summit for a New Global Financing Pact that was held in Paris last June.

Multilateral development banks can provide an essential lifeline, but their capacity would have to be strengthened – and quickly. According to World Bank data, the new concessional loans the world’s poorest countries received from MDBs in 2022 were smaller than these countries’ debt-service payments, a large share of which went to private and bilateral creditors. Increasing capital flight from the developing world – driven not least by monetary tightening in advanced economies – will intensify the needs of illiquid lower-income

countries.

But it is not only a matter of financial capacity. MDBs have so far been inconsistent, at best, when it comes to supporting countries struggling to repay their debts. For example, both Kenya and Ethiopia have been under pressure to repay their private and Chinese creditors, which are now collecting more in debt-service payments than they are providing in new loans. But only Kenya received enough support from the International Monetary Fund, the World Bank, and others to refinance its debt that is maturing this year.

By contrast, assistance to Ethiopia has declined in recent years. As a result, Ethiopia recently defaulted on its external debt, even though it amounts to just 25% of GDP. While the Kenya approach is not the solution – providing similar levels of support to all illiquid countries would require a tripling of MDB flows – this is clearly unacceptable.

A better approach would focus on closing the gap between short-term debt concerns and long-term investment needs, by unlocking net-positive inflows for countries facing liquidity constraints. As the FDL has proposed, an agreement among debtors, creditors, and MDBs to permit countries to reschedule debts coming due – delaying maturities by 5-10 years – would create fiscal space for climate-friendly investments, financed by MDBs.

For this liquidity bridge to work, MDBs would have to accelerate progress on implementing existing reform plans and increase funding substantially, while the IMF helps manage debt-rollover risks. Importantly, private and bilateral creditors would have to agree to the rescheduling. That is why, compared to the Debt Service Suspension Initiative that the G20 introduced in 2020, the proposal includes stronger incentives for private-sector creditors to participate, in addition to longer time horizons.

There are good reasons to believe that creditors can be convinced to join the program voluntarily. It is, after all, in their best interest to remain invested in solvent countries with strong growth prospects; no one benefits from debt crises like those that have ensnared Zambia and Sri Lanka. In any case, creditors would continue receiving interest payments, and as global interest rates fall and economic-growth prospects improve in the coming years, debtors may well be able to return to capital markets and resume repayment of the principal.

Shaping a workable blueprint along these lines is a task for upcoming international gatherings, such as the G20 summit in Brazil later this year. Logistical and financial coordination will be needed to ensure sufficient liquidity. Coordination among the IMF, the World Bank, and regional development banks will also be essential to ensure that participating debtor countries pursue investments that genuinely support green growth.

If nothing is done to help countries facing liquidity crises, the world will risk a wave of destabilizing debt defaults, and progress on the green transition will be severely undermined, with catastrophic implications for the entire world. Because promising solutions like the liquidity bridge can prevent such outcomes, they deserve broad global support.

UN climate chief calls for \$2.4tn in climate finance



The world needs to mobilise at least \$2.4tn to keep global climate change goals within reach, the United Nations climate chief said in a speech yesterday.

Simon Stiell, executive secretary of the UN Framework Convention on Climate Change (UNFCCC), addressed a group of students at the Azerbaijan Diplomatic Academy in Baku, host of the COP29 climate summit in November, laying out the steps that need to be taken this year to turn the commitments made at last year's summit in Dubai into reality.

This was Stiell's first major speech since the UN gathering in Dubai, where nearly 200 countries agreed to begin a transition away from fossil fuels to avert the worst impacts of climate change.

"It's clear that to achieve this transition, we need money, and lots of it – \$2.4tn, if not more", excluding China, Stiell said in prepared remarks, citing a report released in December from the High-Level Expert Group on Climate Finance.

"Whether on slashing emissions or building climate resilience, it's already blazingly obvious that finance is the make-or-break factor in the world's climate fight – in quantity, quality, and innovation," he said. "In fact, without far more finance, 2023's climate wins will quickly fizzle away into more empty promises."

Climate finance will be the main focus of the Azerbaijan-

hosted talks, where governments will be tasked with setting a new target post-2025 for raising money to support developing country efforts to cut emissions and adapt to the worsening impacts of climate change.

Setting a new financial goal will be challenging given that countries only met last year a goal set in 2009 to mobilise \$100bn a year in climate finance by 2020.

"It's already blazingly obvious that finance is the make-or-break factor in the world's climate fight," he said, adding that without more finance, the wins achieved at the COP28 Dubai summit will fizzle out.

Stiell said that the year should be spent ensuring that the global financial system and multilateral banks can meet the task of ramping up climate finance, and urged banks to triple the amount of climate grants and concessional finance by 2030 and triple the rate of private capital they mobilise.

More broadly, he cautioned against taking "victory laps" after the UAE agreement, saying that the political agreement reached in Dubai enables countries to hide behind "loopholes".

"The action we take in the next two years will shape how much climate-driven destruction we can avoid over the next two decades, and far beyond," he said.

The world is currently far off track in delivering on its cornerstone climate deal, agreed in Paris in 2015.

Under the Paris Agreement, world leaders pledged to keep the rise in Earth's average temperature to "well below" 2.0°C above the pre-industrial level and preferably the much safer threshold of 1.5°C.

The 2020s are critical for keeping that 1.5°C target in view, with UN climate experts estimating that planet-heating greenhouse gas emissions need to be slashed by some 43% by 2030.

There is progress, with a surge in clean energy technologies like solar, wind and batteries, as well as electric vehicles.

However, emissions continue to rise.

A key challenge that is likely to take centre stage at this

year's climate talks in Baku, as well as meetings of the World Bank and International Monetary Fund (IMF), is how to support emerging economies manage and pay for their transition to clean energy.

Many of these nations are currently mired in debt and facing a raft of challenges, from inflation to growing climate impacts. Meanwhile global warming continues, with 2023 confirmed as the hottest ever recorded and experts warning 2024 could be even hotter.

The Earth is now about 1.2°C warmer than it was in the 1800s. This is already having an accelerating impact on people and ecosystems across the planet, from heatwaves and droughts, to devastating floods and storms.

A damning appraisal of countries' decarbonisation efforts so far, released last year, showed the world heading for catastrophic planetary heating.

Stiell conceded it would take an "Olympian effort" to get the world on track.

One key task for countries will be to outline a new round of national climate targets for 2035 ahead of a pivotal COP30 meeting, due to be held in Brazil in 2025.

These pledges should be strengthened to align with the 1.5°C goal, cover the whole economy and all greenhouse gases, Stiell said.

"The action we take in the next two years will shape how much climate-driven destruction we can avoid over the next two decades, and far beyond," he added.

Freezing weather is knocking

out millions of barrels of US oil output



The wintry weather that blanketed parts of Texas in snow and hammered North Dakota with extreme cold has knocked out millions of barrels of US oil production, and the industry is expected to need weeks to restore output to normal levels.

Production across the US was curtailed by about 10mn barrels this week, according to market participants who asked not to be named because the information is private. Losses in the Permian Basin of Texas and New Mexico are estimated at around 6mn barrels and shut-in output in North Dakota's Bakken is seen at close to 3.5mn barrels.

In Midland, in the heart of the Texas Permian, temperatures dipped below freezing in 11 out of the 19 days of this month. The cold has been especially bitter in past few days, with the lows below 20F (-7C) for most of the week, according to Accuweather.

Extremely low temperatures freeze water at the wellhead, shutting in production. Icy roads make it difficult for vacuum trucks – used to haul away waste water – to reach drill pads, causing drillers to either halt pumping or curtail rates, the people said.

The losses currently amount to less than 1% of total US crude production, which is around 13mn barrels a day, but they are expected to linger or even rise in North Dakota. In the city of Williston, at the centre of the Bakken formation, below-freezing temperatures are expected

throughout the end of the month, posing continued challenges. Oil producers there may need at least a month to restore output to normal

levels after more than half of the state's flows were cut off this week, state officials said.

Natural gas gathering systems that are connected to oil wells fill up with liquids during extreme cold, disrupting the operation of

compressors, said Lynn Helms, North Dakota's mineral resources director. Crude wells are then shut in to avoid flaring.