

The War of the Straits: Impact on the World Energy Market



By Roudi Baroudi, TLN Senior Fellow

The recent significant disruptions in shipping through the Strait of Bab el Mandeb, situated between Yemen and Djibouti, underscore the geopolitical fragility of the waterway akin to that of the more widely acknowledged Strait of Hormuz. Among the six globally sensitive passages, including the Bosphorus, the Panama Canal and Malacca, the Middle East region boasts three critical and strategic maritime routes: the Suez Canal, Bab el Mandeb in the south of the Red Sea, and the Strait of Hormuz.

These passages witness the transit of not only crude oil and petroleum products but also liquefied natural gas (LNG). Bab

el Mandeb, with its unique characteristic as a transit route for both northbound and southbound traffic, plays a pivotal role. Approximately 12 percent of total seaborne quantities traded to Europe, the U.S. and key Asian markets, including China, India and Singapore, pass through the Bab el Mandeb Strait. Protecting the unimpeded flow of energy trade on a global scale is a vital commitment, essential for maintaining it sustainable, affordable and securing supply to the world.

Reflecting on the 1960s, when the Suez Canal faced disruptions during and after the 1967 war, several nations, notably Saudi Arabia, Kuwait, Qatar, the United Arab Emirates and Bahrain, collectively financed the construction of the SUMED pipeline. This double pipeline, stretching 320 kilometers from the Red Sea to the Mediterranean – passing entirely through Egypt, was instrumental in ensuring a continuous flow of approximately 2.5 million barrels of crude oil to Europe.

Saudi Aramco subsequently erected a dual pipeline from the Abqaiq Oil Field (in the east of the Kingdom) to the Yanbu Industrial Port (in the west), capable of transporting 5 to 7 million barrels per day. This strategic deterrent pipeline was a precautionary measure in case of a complete Strait of Hormuz closure. These initiatives not only protect the free trade of oil and gas but also underscore the significance of securing the unimpeded shipping of hydrocarbon products for reliable and secure energy trade.

In a similar vein, the U.S. has previously faced similar challenges and responded strategically. During the Tankers War, then-President Ronald Reagan initially ordered Kuwaiti tankers to be escorted, eventually extending the protection to all commercial ships navigating in and out of the Strait of Hormuz. This broad security measure included a 24-hour air surveillance conducted by AWACS planes.

Applying lessons learned, similar measures could be implemented in Bab el Mandeb, considering its geographical similarity to the Strait of Hormuz, with both having narrow

coast-to-coast widths at specific points. The minimum width of the Strait of Hormuz is 21 nautical miles, while Bab el Mandeb measures around 19 miles.

The significance of energy transit choke points through narrow channels cannot be overstated. As one-half of the world's crude oil supply relies on maritime transportation, protecting the free flow of oil and gas through maritime shipping routes is crucial for global energy price stability and security.

Dr. Roudi Baroudi, currently serves as CEO of Energy and Environment Holding, an independent consultancy based on Doha, has written extensively on the region, including "Maritime Boundaries in the Mediterranean: The Way Forward", a 2021 book that called for the very sort of creative diplomacy used to reach the Lebanon-Israel agreement. His latest book – "Climate and Energy in the Mediterranean: What the Blue Economy Means for a Greener Future" (published by the TLN this year and distributed by Eurospan). Baroudi is also a Senior Fellow at the Transatlantic Leadership Network, a Washington, DC-based Think tank. He is a recipient of TLN's 2023 "Leadership Award" for his ongoing work to promote peace and mutual cooperation in the Eastern Mediterranean.

Qatar suggests three-point agenda for equitable, secure and sustainable energy transition



Qatar has suggested three point-agenda, which includes greater investment in energy efficiency and low carbon innovation and coordinated policies and incentives, for equitable, secure and sustainable energy transition, which not only protects earth but also propels economic growth.

This suggestion was made by HE Saad bin Sherida al-Kaabi, Minister of State for Energy Affairs, at the ministerial session of the 17th Gulf Petrochemicals and Chemicals Association (GPCA) forum in the presence of Abdulaziz bin Salman al-Saud, Minister of Energy, Saudi Arabia; and Salim bin Nasser bin Said al-Aufi, Minister of Energy and Minerals, Oman.

Hamad Rashid al-Mohannadi, former general manager, Qatar Petrochemicals Company (QAPCO), was chosen for the fifth GPCA legacy award in recognition of extraordinary contributions to foster and strengthen the chemical industry.

The forum featured an exhibition that showcased new projects, industry journey, youth pavilion, sustainability district, cultural majlis and publications.

Highlighting that secure, equitable sustainable energy transition will not only help protect the planet but also provide economic growth; al-Kaabi said “to achieve this goal, we need to remain focused on three important areas that are essential in energy transitioning.”

The first and foremost, according to him, was the greater

investment in energy efficiency and low carbon innovation. This includes renewable energy integration, carbon capture and sequestration, low carbon solutions for reduced greenhouse gas emissions, and the carbon intensity in the chemical manufacturing, he said.

Other areas include optimising resources use, waste reduction, waste management and developing circular economies through improving recycling and the reuse of materials.

“We need coordinated policies and incentives to support the petrochemical industry’s success,” al-Kaabi said.

Terming the third enabler as awareness; he said it was not fair to put the onus on energy producers alone as there was a need for the real story to be told within workforce, across societies and among consumers about the critical role chemical industries plays in bettering lives worldwide.

In Qatar, the growth and evolution of petrochemical industry has been on a steady path of success, al-Kaabi said, adding the country is building the world’s largest blue ammonia plant with annual 1.2mn tonnes capacity.

“This plant will be most sustainable facility of its kind. As part of this project, we are implementing CCS technologies to capture and sequester 1.2mn tonnes of carbon dioxide. Furthermore, the electricity for this project comes from a solar power plant currently under construction,” he said.

He reminded that QatarEnergy in partnership with Chevron Phillips recently announced the start of the construction of two ethane crackers with a capacity of more than 2mn tonnes per annum each, one in Qatar and one in the US. The expected start is before the end of 2026, he added.

The Saudi oil minister said the demand for petrochemicals is expected to grow by more than 50% by 20240 with demand for basic chemicals such as ethylene and propylene slated to expand more than 60%, quoting market report and analysts.

The sector is also advancing through innovative technologies to maximise the yield of crude oil, he added.

QatarEnergy integrates marketing activities of QatarEnergy LNG



QatarEnergy has integrated all marketing and marketing-related activities formerly managed by QatarEnergy LNG (previously Qatargas).

This is a major move towards consolidating QatarEnergy's position as a global energy leader and an important milestone to enhance the effectiveness of LNG (liquefied natural gas) marketing and sales from Qatar.

"Today's announcement is another important milestone that firmly positions QatarEnergy on the road to becoming one of the best energy companies in the world. This strategic step will enable us to deliver an unparalleled value proposition that is the backbone of our global reputation as a reliable and trustworthy energy provider," said HE Saad bin Sherida al-Kaabi, the Minister of State for Energy Affairs, also the

President and CEO of QatarEnergy

With this integration, QatarEnergy leverages a combined set of technical, commercial, and financial capabilities to create an enhanced centre of excellence for the marketing and sale of all energy products exported from Qatar.

The move places QatarEnergy in a unique position to deliver unparalleled service and value to its customers and stakeholders, hence, reinforcing QatarEnergy's commitment to delivering excellence.

With this integration, QatarEnergy will offer an even more diversified and integrated portfolio of products and services, ensuring a seamless and enhanced customer experience. It will also be the sole point of contact for Qatar's existing and prospective energy customers globally.

"We all look forward to their continued commitment and dedication that will further strengthen Qatar's global LNG offering and generate value from a unified customer and stakeholder interface," al-Kaabi said.

Europe's energy crisis is over



LONDON, Nov 28 (Reuters) – From mid-2021 until late 2022, Europe and parts of Asia were gripped by an energy crisis, as oil, gas, coal and power prices surged, in some cases to record highs, forcing households and firms to cut use rapidly.

Russia's invasion of Ukraine and sanctions imposed in response by the U.S. and its allies disrupted energy supplies that were already stretched by the rebound in industrial production after the coronavirus epidemic. LONDON, Nov 28 (Reuters) – From mid-2021 until late 2022, Europe and parts of Asia were gripped by an energy crisis, as oil, gas, coal and power prices surged, in some cases to record highs, forcing households and firms to cut use rapidly.

Russia's invasion of Ukraine and sanctions imposed in response by the U.S. and its allies disrupted energy supplies that were already stretched by the rebound in industrial production after the coronavirus epidemic.

But 18-24 months later, the acute phase of the adjustment is complete, with energy inventories comfortable and prices

reverting towards long-term inflation-adjusted averages.

Chartbook: Europe's energy supplies and prices

There will undoubtedly be more shocks in future, but the disruption associated with the end of the pandemic and Russia's invasion of Ukraine is over. Markets have adapted.

Europe's residual issue is that it has swapped relatively cheap Russian pipeline gas for relatively expensive LNG, putting its industrial competitiveness at risk, but that is a chronic problem rather than a crisis.

OIL

In the oil market, U.S. domestic crude and condensates production has continued to increase and surpassed its pre-pandemic peak in August 2023. Other non-OPEC production sources are also growing steadily.

High-frequency data from the U.S. shows commercial crude inventories were 12 million barrels (+3% or +0.26 standard deviations) above the prior ten-year seasonal average in mid-November, an indication the market is comfortably supplied.

Front-month Brent crude futures have averaged \$82 per barrel so far this month, exactly in line with the median since the start of the century after adjusting for inflation.

Brent's six-month calendar spread has traded in an average backwardation of \$1.57, only modestly above the long-term average of \$1.04.

By late 2022 and early 2023, fears about over-production and the potential accumulation of oil inventories had replaced concerns about insufficient supplies and the rapid depletion of stocks.

In response, Saudi Arabia and its OPEC+ partners have cut output multiple times to avert an incipient inventory build, in stark contrast to pressure on them a year earlier to raise

output to relieve anticipated shortages.

GAS

Rapid adjustment has also been evident in gas, where U.S. inventories have been consistently above the prior ten-year seasonal average since February 2023, and exports have increased to record rates.

Front-month U.S. gas futures prices have traded close to their lowest levels for 30 years, once adjusted for inflation, confirming the market is responding to an incipient surplus.

In Europe, gas storage has been at record seasonal levels continuously since the end of the first quarter of 2023 following an unusually warm winter in 2022/23 and sharp falls in industrial gas consumption.

Germany's energy-intensive manufacturing production is down by around 17% since the start of 2022 and shows no sign of recovering.

Total gas use in the European Union's top 7 consuming countries – Germany, Italy, France, Netherlands, Spain, Belgium and Poland – was down by 13% in the first nine months of 2023 compared with the pre-invasion ten-year seasonal average for 2012-2021.

Inflation-adjusted futures prices for the year ahead have averaged 48 euros per megawatt hour so far in November, down from 223 euros at the height of the crisis in August 2022.

In real terms, year-ahead prices have averaged 53 euros so far in 2023 compared with 23 euros in the five years between 2015 and 2019 and 32 euros between 2010 and 2014.

While prices are still high, they are no longer at crisis levels, and are likely to retreat further in the course of 2024.

COAL

An even more profound adjustment has occurred in coal, with demand falling sharply as gas supplies have become more plentiful while mine production has ramped up.

Real year-ahead prices for coal delivered to Northwest Europe have averaged just \$112 per tonne in November 2023 (69th percentile since 2010) from a record of almost \$300 per tonne in September 2022.

On the production side, China, the world's largest coal miner, increased output by 425 million tonnes (10%) in 2022 and has boosted it by another 144 million tonnes (4%) so far in the first ten months of 2023.

ADJUSTMENT

Each market has experienced a slightly different adjustment process, but all have been variations of faster production growth and slower consumption increases.

In oil, consumption has grown more slowly owing to a slowdown in the business cycle, while production outside OPEC+ has increased faster, pushing the market towards a surplus.

Russia's exports have remained high despite sanctions through avoidance (exploiting legal loopholes designed to keep exports flowing and increasing use of dark fleet tankers) and evasion (mis-declaring cargo prices).

In gas, Europe experienced an unusually warm winter in 2022/23 which cut consumption, and has also seen a large reduction in industrial demand from the most energy-intensive users as factories have suspended output.

Europe was able to replace piped gas from Russia with more LNG imports, outbidding other customers in South and East Asia in

winter 2022/23, forcing some of the adjustment burden onto poorer countries.

In coal, China's increasing mine output plus an exponential increase in renewable generation from wind and especially solar have eased shortages and enabled generators to boost fuel inventories.

Other factors that have contributed to the adjustment include high levels of hydro production in Brazil cutting the need for LNG imports, and an unusually mild autumn in Northwest Europe in 2023.

But the common factor is the enormous scale of the price rises in 2021 and 2022, which accelerated and telescoped the adjustment process into a relatively short period.

As a result, after a brutally painful adjustment in 2021 and 2022, production, consumption and inventories have become much more comfortable by the end of 2023 and into 2024, and the crisis phase is over.

Cheap imports threaten US solar panel production boom



US companies have announced plans to build dozens of solar panel factories across the country since last year when President Joe Biden's signature climate law unleashed billions of dollars of subsidies, raising hopes a clean energy boom can provide tens of thousands of good paying jobs.

But global solar panel prices have collapsed due to a wave of new Asian production capacity in recent months, leading many in the US solar industry to worry many of these proposed factories may be uneconomical. As many as half may soon be delayed or canceled, a figure not previously reported, according to Reuters interviews with industry analysts, solar companies, and trade groups.

Changing market forces have already derailed solar manufacturing operations in Europe. In recent days, the US race for a clean energy transition has already been hit by huge writedowns and project cancellations the offshore wind industry.

"The more prices decline in the global market, the more difficult it is to build US local manufacturing," said Edurne Zoco, executive director for clean energy technology at S&P Global Commodity Insights. "If the cost gap between imported

modules and locally manufactured modules is too big ... many of these announcements might not happen.”

Solar shipments into the US more than doubled through August to \$10bn from about \$4bn a year earlier, according to the US International Trade Commission.

The domestic industry’s souring outlook could hurt Biden’s climate agenda and hinder reelection efforts for a president who has hailed solar project plans as proof his clean energy policies can create millions of good-paying jobs.

US solar manufacturers and trade groups have said they need more government help at the federal and state levels or those jobs may not materialise, and the US will keep relying on panels made with mainly Chinese components. US officials have repeatedly warned that over-reliance on Chinese clean energy technology could pose a security risk similar to Europe’s historical dependence on Russian natural gas.

A White House spokesperson did not respond to questions about recent market challenges facing domestic solar manufacturers, but said Biden’s policies had generated a huge wave of investment and were revitalising American manufacturing.

Companies have announced over three dozen solar factories since passage of the Inflation Reduction Act in August 2022 that collectively promised to create 17,000 jobs and bring in nearly \$10bn in investment, according to projects tracked by the clean energy business advocacy group E2.

Of eight solar company representatives, trade groups and researchers who spoke to Reuters, all eight agreed the market has worsened. Energy research firm Wood Mackenzie shared its new forecast that just 52% of the 112 gigawatts of solar module capacity companies planned will be online by the target date of 2026, a projection it has not previously made public.

Mike Carr, executive director of the Solar Energy Manufacturers for America trade group, said factories could be delayed, extending US dependence on China.

“A misunderstanding of the policy opportunity here could really undermine a signature initiative of this administration, which is to restore manufacturing

competitiveness to the United States, and particularly in such a key industry," Carr said.

Globally, the solar industry has already absorbed a 26% drop in panel prices this year to about 19 cents per watt, according to S&P Global Commodity Insights. US prices have been more resilient, but SEMA and analysts say spot prices are declining for those without long-term contracts.

The increase in solar imports stems partly from a temporary waiver of tariffs on Malaysia, Thailand, Cambodia and Vietnam, which expires in June, 2024. Imports are also up sharply from India, Mexico and other nations unaffected by that move.

The IRA provides a decade of tax incentives worth 30% of a project's cost. But industry consultant Brian Lynch said that could be outweighed by the glut of cheap panels and worries about rising costs for labor, raw materials and financing.

"It's almost like Dr Jekyll and Mr. Hyde. The incentives to site and open up a US factory are phenomenal," Lynch said. "But if pricing is going to continue to go down, if the continued gamesmanship on the trade is going to continue, they can't justify it."

The US Commerce Department said imported panels and cells remained important to the clean energy transition.

"Commerce is committed to holding foreign producers accountable to playing by the same rules as US producers," a Commerce spokesperson said.

The IRA also contains a 10% bonus credit for panel manufacturers using American-made components. This perk is critical for domestic panels that may command a 40% price premium to imported alternatives, according to Wood Mackenzie. But so few components are produced domestically that much of the industry cannot secure that bonus. So far, solar module factory announcements have been more than double those for solar cells, the crucial components that transform sunlight into energy.

The industry needs more government help, including "the right tax and trade policies that build on the IRA and similar state

laws that create the space for emerging US solar manufacturers to compete on a global scale,” said Danny O’Brien, president of corporate affairs at Hanwha Qcells, which is making one of the largest investments in the domestic solar supply chain.

Meyer Burger, which plans to build a factory in Colorado, said the government needs to help domestic manufacturers deal with “underpriced products that are coming from Asia”.

The Solar Energy Industries Association (SEIA), a large solar trade group that has long opposed tariffs, is also advocating for more support for manufacturers, warning it does not expect that every proposed factory will be built.

Convult Energy plans next year to open 2 gigawatts of module capacity in New York and Maine followed by a facility for components in 2025. CEO Hari Achuthan said module production lines are already about four months behind schedule because the company’s financiers are waiting for the Treasury Department to issue crucial rules on how to secure the IRA tax credits.

“Our country has done a phenomenal job seeing through the IRA bill. But now it’s going to come down to the details of the IRA and how we execute it and the support that we need to get from the Commerce Department and anybody else with regard to tariffs on imports,” he said. – Reuters

Regional Energy Expert Roudi Baroudi Earns Award from Washington Think Tank



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Transatlantic Leadership Network Recognizes Author for Contributions to Peaceful Development in Eastern Mediterranean

WASHINGTON, DC November 9, 2023: Doha-based Lebanese author Roudi Baroudi was one of two people presented with the 2023 Transatlantic Leadership Award at a ceremony in Washington this week.

Although circumstances relating to the conflict in the Gaza Strip prevented Baroudi from attending the event, both he and Joshua Volz – the Deputy Assistant Secretary for Europe, Eurasia, Africa, and the Middle East and the Office of International Affairs at the US Department of Energy – were recognized by the Transatlantic Leadership Network (TLN). Each was cited at a gala dinner on Monday for his “valuable contribution in building a peaceful and prosperous Eastern Mediterranean” as part of the TLN’s 2nd Annual Conference on Freedom of the Media.

“I was deeply honored to be named a recipient of this prestigious award, and I will always be grateful for the many ways in which the TLN has supported my work for several years now,” Baroudi said. “I also look forward to working together in the future so that one day, our descendants can know the benefits of peace and coexistence. It is precisely in difficult and trying times that cooler heads must be able and willing to look at the reasons for current bloodshed and recrimination, then envision pathways to a better future.”

Baroudi, who serves as CEO of independent consultancy Energy and Environment Holding in Doha, is a long-time champion of dialogue, cooperation, and practical solutions to both the global climate crisis and recurrent tensions in the East Med. A regular speaker at regional energy and policy conferences, Baroudi’s insights are also avidly sought by local and international media, as well as governments, major energy companies, and investors.

Having advised both public and private sector actors on a wide variety of energy issues, Baroudi is widely credited with bringing unique perspective to all manner of policy discussions. He is the author of several books, including “Maritime Disputes in the Eastern Mediterranean: The Way Forward” (2021), and “Climate and Energy in the Mediterranean: What the Blue Economy Means for a Greener Future” (2022). Together with Notre-Dame University – Louaize, Baroudi has also published a study of the US-brokered October 2022 Maritime Boundary Agreement between Lebanon and Israel, and is currently preparing another volume on Lebanon’s prospects for similar deals with Cyprus and Syria.

The TLN describes itself as “a nonpartisan, independent, international network of practitioners, private sector leaders and policy analysts dedicated to strengthening and reorienting transatlantic relations to the rapidly changing dynamics of a globalizing world.”

Monday's ceremony was attended by a broad cross-section of high-profile figures, including senior officials from the Departments of Energy and State, numerous members of Washington's extensive diplomatic corps, and representatives of both international organizations and various media outlets.

Climate's 'Catch-22': Cutting pollution heats up planet



Air pollution, a global scourge that kills millions of people a year, is shielding us from the full force of the sun. Getting rid of it will accelerate climate change.

That's the unpalatable conclusion reached by scientists poring over the results of China's decade-long and highly effective "war on pollution", according to six leading climate experts.

The drive to banish pollution, caused mainly by sulphur dioxide (SO₂) spewed from coal plants, has cut SO₂ emissions by close to 90% and saved hundreds of thousands of lives, Chinese official data and health studies show.

Yet stripped of its toxic shield, which scatters and reflects solar radiation, China's average temperatures have gone up by 0.7 degrees Celsius since 2014, triggering fiercer heatwaves, according to a Reuters review of meteorological data and the scientists interviewed.

"It's this Catch-22," said Patricia Quinn, an atmospheric chemist at the US National Oceanic and Atmospheric Administration (NOAA), speaking about cleaning up sulphur pollution globally. "We want to clean up our air for air quality purposes but, by doing that, we're increasing warming."

The removal of the air pollution – a term scientists call "unmasking" – may have had a greater effect on temperatures in some industrial Chinese cities over the last decade than the warming from greenhouse gases themselves, the scientists said. Other highly polluted parts of the world, such as India and the Middle East, would see similar jumps in warming if they follow China's lead in cleaning the skies of sulphur dioxide and the polluting aerosols it forms, the experts warned.

They said efforts to improve air quality could actually push the world into catastrophic warming scenarios and irreversible impacts.

"Aerosols are masking one-third of the heating of the planet," said Paulo Artaxo, an environmental physicist and lead author of the chapter on short-lived climate pollutants in the most recent round of reports by the Intergovernmental Panel on Climate Change (IPCC), completed this year.

"If you implement technologies to reduce air pollution, this will accelerate – very significantly – global warming in the short term."

The Chinese and Indian environment ministries didn't immediately respond to requests for comment on the effects of pollution unmasking.

The link between reducing sulphur dioxide and warming was flagged by the IPCC in a 2021 report which concluded that, without the solar shield of SO₂ pollution, the global average temperature would already have risen by 1.6 degrees Celsius above preindustrial levels.

That misses the world's goal of limiting warming to 1.5C, beyond which scientists predict irreversible and catastrophic changes to the climate, according to the IPCC, which pegs the current level at 1.1C.

The Reuters review of the Chinese data provides the most detailed picture yet of how this phenomenon is playing out in the real world, drawing on previously unreported numbers on changes in temperatures and SO₂ emissions over the past decade and corroborated by environmental scientists.

Reuters interviewed 12 scientists in total on the phenomenon of unmasking globally, including four who have acted as authors or reviewers of sections on air pollution in IPCC reports.

They said there was no suggestion among climate experts that the world should let-up on fighting air pollution, a clear and present danger that the World Health Organisation says causes about 7mn premature deaths a year, mostly in poorer countries. Instead they stressed the need for more aggressive action to cut emissions of climate-warming greenhouse gases, with reducing methane seen as one of the most promising paths to offset pollution unmasking in the short term.

President Xi Jinping pledged to tackle pollution when he took power in 2012 following decades of coal-burning that had helped turn China into "the factory of the world". The following year, as record smog in Beijing inspired "Airpocalypse" newspaper headlines, the government unveiled what scientists called China's version of the US Clean Air Act.

On March 5, 2014, a week after Xi went on a walkabout during another extreme bout of smog in the capital, the government officially declared a war on pollution at the National People's Congress.

Under the new rules, power plants and steel mills were forced to switch to lower-sulphur coal. Hundreds of inefficient factories were shuttered, and vehicle fuel standards toughened up. While coal continues to be China's largest power source, smokestack scrubbers now strip out most SO₂ emissions.

China's SO₂ emissions had decreased from a 2006 peak of at nearly 26mn metric tons to 20.4mn tons in 2013 thanks to more gradual emissions restrictions. But with the war on pollution, those emissions had plummeted by about 87% to 2.7mn metric tons by 2021.

The drop in pollution was accompanied by a leap in warming – the nine years since 2014 have seen national average annual temperatures in China of 10.34C, up more than 0.7C compared with the 2001-2010 period, according to Reuters calculations based on yearly weather reports published by the China Meteorological Administration.

Scientific estimates vary as to how much of that rise comes from unmasking versus greenhouse gas emissions or natural climate variations like El Nino.

The impacts are more acute at a local level near the pollution source. Almost immediately, China saw big warming jumps from its unmasking of pollution near heavy industrial regions, according to climate scientist Yangyang Xu at Texas A&M University, who models the impact of aerosols on the climate.

Xu told Reuters he estimated that unmasking had caused temperatures near the cities of Chongqing and Wuhan, long known as China's "furnaces", to rise by almost 1C since sulphur emissions peaked in the mid-2000s.

During heatwaves, the unmasking effect can be even more pronounced. Laura Wilcox, a climate scientist who studies the effects of aerosols at Britain's University of Reading, said a computer simulation showed that the rapid decline in SO₂ in China could raise temperatures on extreme-heat days by as much as 2C.

"Those are big differences, especially for somewhere like China, where heat is already pretty dangerous," she said.

Indeed, heatwaves in China have been particularly ferocious

this year. A town in the northwestern region of Xinjiang saw temperatures of 52.2C (126F) in July, shattering the national temperature record of 50.3C set in 2015.

Beijing also experienced a record heatwave, with temperatures topping 35C (95F) for more than four weeks.

The effects of sulphur unmasking are most pronounced in developing countries, as the US and most of Europe cleaned up their skies decades ago. While the heat rise from sulphur cleanup is strongest locally, the effects can be felt in far-distant regions. One 2021 study co-authored by Xu found that a decrease in European aerosol emissions since the 1980s may have shifted weather patterns in Northern China.

In India, sulphur pollution is still rising, roughly doubling in the last two decades, according to calculations by NOAA researchers based on figures from the US-funded Community Emissions Data System.

In 2020, when that pollution plummeted due to Covid lockdowns, ground temperatures in India were the eighth warmest on record, 0.29 C higher than the 1981-2010 average, despite the cooling effects of the La Nina climate pattern, according to the India Meteorological Department.

India aims for an air cleanup like China's, and in 2019 launched its National Clean Air Programme to reduce pollution by 40% in more than 100 cities by 2026.

Once polluted regions in India or the Middle East improve their air quality by abandoning fossil fuels and transitioning to green energy sources, they too will lose their shield of sulphates, scientists said.

"You stop your anthropogenic activities for a brief moment of time and the atmosphere cleans up very, very quickly and the temperatures jump instantaneously," added Sergey Osipov, a climate modeller at the King Abdullah University of Science and Technology in Saudi Arabia.

As the implications of the pollution unmasking become more apparent, experts are casting around for methods to counter the associated warming.

One proposal called "solar radiation management" envisions

deliberately injecting sulphur aerosols into the atmosphere to cool temperatures. But many scientists worry that the approach could unleash unintended consequences.

A more mainstream plan is to curb methane emissions. This is seen as the quickest way to tame global temperatures because the effects of the gas in the atmosphere last only a decade or so, so cutting emissions now would deliver results within a decade. Carbon dioxide, by comparison, persists for centuries. As of 2019, methane had caused about 0.5C in warming compared with preindustrial levels, according to IPCC figures.

While more than 100 countries have pledged to reduce methane emissions by 30% by the end of the decade, few have gone further than drawing up “action plans” and “pathways” to cuts. China – the world’s biggest emitter – has yet to publish its plan.

By targeting methane, the world could mitigate the warming effect of the reduction in pollution and potentially avert catastrophic consequences, said Michael Diamond, an atmospheric scientist at Florida State University.

“This doesn’t doom us to going above 1.5 degrees Celsius if we clean up the air.”

Bumper profits ebb at US oil giants as they tout big fossil deals



NEW YORK, Oct 28: ExxonMobil and Chevron reported lower profits Friday compared with the year-ago blowout quarter as the oil giants touted recent acquisitions they said balance economic and environmental priorities.

The two petroleum heavyweights – which in recent weeks have unveiled large takeovers of mid-sized fossil fuel players – both reported third-quarter profits that were big, but dwarfed by those in the year-ago period.

ExxonMobil reported third-quarter profits of \$9.1 billion, less than half the level in the 2022 period of booming commodity prices, while Chevron scored profits of \$6.5 billion, down 42 percent from the year-ago level.

The lower profits reflected an ebbing in commodity prices compared with the year-ago period, when Russia's invasion of Ukraine lifted oil and natural gas prices.

The results were released only days after Chevron announced a \$53 billion acquisition of Hess that includes a significant stake in an oil-rich Guyana offshore territory.

That followed on the heels of ExxonMobil's \$60 billion takeover of Pioneer Natural Resources, a big player in the Permian Basin, a fast-growing petroleum region in the southwestern US.

The two large transactions have raised hopes among investment bankers of additional merger and acquisition activity involving fossil fuels, while angering progressive lawmakers and others focused on addressing climate change.

"While our homes get destroyed by climate-supercharged storms, Chevron and Exxon are betting the house on a fossil-fueled future," Democratic Senator Ed Markey said on X, formerly Twitter, earlier this week.

"We have to make Big Oil fold their hand before our future goes bust."

In the latest quarter, ExxonMobil scored higher oil and natural gas volumes compared with the second quarter and said that 2023 capital and exploration spending would be "at the top end" of its forecast "as the company pursues value accretive opportunities," according to its earnings press release.

"We delivered another quarter of strong operational performance, earnings and cash flows, adding nearly 80,000 net oil-equivalent barrels per day to support global supply," said Chief Executive Darren Woods.

ExxonMobil has said it plans significant investment in Pioneer's Permian Basin fields that would enable Exxon to more than double its current volumes from the region to two million barrels of oil equivalent per day in 2027.

In its press release, ExxonMobil characterized its approach as a balanced strategy, noting the company has also announced a \$4.9 billion takeover of Denbury Inc. as a bet on carbon capture and sequestration, which the company has touted as a

climate solution. ExxonMobil said it would boost petroleum output and “accelerate Pioneer’s path to net zero” emissions.

“The two transactions we’ve announced further underscore our ongoing commitment to the ‘and’ equation by continuing to meet the world’s needs for energy and essential products while reducing emissions,” Woods said.


“Pioneer will help us grow supply to meet the world’s energy needs with lower carbon intensity while Denbury improves our competitive position to economically reduce emissions in hard-to-decarbonize industries.”

Chevron’s results also showed an uptick in third-quarter production, with the company citing the boost from its earlier purchase of PDC Energy, smaller Permian operator.

Chevron as well highlighted its comparatively small efforts in its “New Energies” division, which last month closed a transaction to acquire a majority stake in Aces Delta. The first project in that venture will convert and store hydrogen made from renewable energy, is expected to enter commercial service in 2025.

“Chevron is delivering strong financial results while also investing to profitably grow our traditional and new energy businesses to drive superior value for shareholders,” said Chevron Chief Executive Mike Wirth.

But critics such as clean energy podcaster David Roberts ripped both deals, saying on X, “Oil companies are quite flagrantly telling the world that they don’t take decarbonization goals seriously. They are betting on climate failure, to the tune of billions.”

Shares of ExxonMobil rose 0.3 percent in pre-market trading, while Chevron fell 2.1 percent. AFP

Transport minister leads team to Tbilisi Belt and Road Forum



Qatar is participating with a delegation headed by HE the Minister of Transport and Communications Jassim Seif Ahmed al-Sulaiti in the Tbilisi Belt and Road Forum, which was inaugurated on Tuesday in Tbilisi, Georgia, under the theme: "Partnership for Global Impact".

Inaugurated by the Prime Minister of Georgia, Giorgi Gakharia, on Tuesday, the forum saw the attendance of over 2,000 participants from 60 countries, including heads of states, ministers, diplomats and representatives of international and business organisations.

In his opening speech, Gakharia stressed the importance of the new Silk Road in modern economic integration and globalisation, saying that the participation in the initiative

is among the top priorities of the Georgian government.

Georgia was one of the first countries applauding the China-proposed Belt and Road Initiative (BRI) to create new trade corridors between Europe and Asia and improve existing ones, he said.

The Tbilisi Silk Road Forum, he said, is “an important opportunity” and a platform on which the countries involved in the BRI, international organisations and the private sector discuss regional economic challenges and explore ways to overcome the challenges and share experience.

The forum is being held for the third time in Tbilisi.

It is opened by the Prime Minister of Georgia and organised by the Georgian ministries of foreign affairs, economy and sustainable development and supported by China and the Asian Development Bank.

The mission of the forum is to serve as an international platform for multilateral high-level dialogue among senior policymakers, businesses and community leaders to discuss important issues on trade and connectivity, examine challenges facing countries along the New Silk Road connecting East and West, and find common solutions that have a positive impact on the region and the global economy.

Day 1 provides opportunities to discuss a full spectrum of issues related to trade, artificial intelligence (AI), transport and energy in separate panel discussions, and Day 2 focuses on the private sector and investment opportunities in Georgia.

Meanwhile, Prime Minister Gakharia met HE al-Sulaiti in Tbilisi on Tuesday. The meeting reviewed bilateral relations between Qatar and Georgia in the fields of transportation, mobility and communications and means of further enhancing them, in addition to discussing a number of topics of common

interest.