

What can COP28 achieve?



COP season is almost here. For the climate-conscious, the annual Conference of the Parties of the UN Framework Convention on Climate Change (UNFCCC) is a fixture of the late-year calendar and an opportunity to take stock of our goals, needs, and achievements. We spend two weeks preoccupied with a distant event hoping that negotiators will make meaningful progress toward mitigating the climate threat. But to keep our expectations for COP28 realistic, we must understand what a COP can and cannot do.

We are steadily decarbonising our economies. Within a decade, wind and solar power will be the major sources of electricity, and sales of electric vehicles (EVs) are likely to overtake those with internal combustion engines. According to the International Energy Agency, the world's fossil-fuel consumption will start falling by 2030. Though this is probably too late to limit the global temperature increase to 2C, let alone 1.5C, above pre-industrial levels, it is sooner than one would have expected only a short time ago.

But little of this progress is directly attributable to COPs, including COP21 in 2015, from which the Paris climate agreement emerged. In fact, the Paris agreement specifies nothing about EVs or wind or solar power. Instead, it is Tesla that is responsible for the growth of EV sales: the commercial success of the company's Model S drove other high-end automakers to develop the competitive products which are now debuting.

Is there any connection between COPs and Tesla's success? If there is, it is not direct. During its early growth stages, Tesla benefited greatly from the United States' Corporate Average Fuel Economy (CAFE) regulations, which enabled it to sell zero-emissions credits to other manufacturers. The revenues from ZEC sales sometimes surpassed those of car sales.

The CAFE regulations date back to 1975, two decades before the first COP was held. They have, however, been tightened over time, a process that might partly reflect increased awareness, fostered by the COPs, of the climate challenge. Similarly, the COPs might have encouraged the subsidies, in both the US and the European Union, from which Tesla has benefited more recently, after it had already become a major force in the auto industry.

As for solar and wind, the sharp decline in costs has driven their dramatic growth. From 2009 to 2019, the cost of solar power fell from \$0.36 per kilowatt-hour to \$0.03. This decline is attributable to two main factors: economies of scale, which lowered the costs of producing each silicon wafer, and learning by doing, which led to more efficient – and thus cheaper – manufacturing processes. Both factors sustain a virtuous cycle: as the use of solar power increases, costs come down, further accelerating the adoption of solar power.

This process was kicked off by Germany's adoption of generous feed-in tariffs for solar power in 2000. The Chinese government subsequently began investing heavily in solar, which it identified as a strategically important industry. Again, these important policy moves could have been encouraged

by the increased awareness of climate change that they generate at COP meetings.

For offshore wind, the decline in costs has been driven largely by Orsted and Equinor, two Scandinavian companies that leveraged their offshore oil and gas expertise to develop offshore wind farms, which use many of the same technologies. Government subsidies helped the nascent technology to become commercially viable.

In short, progress on decarbonisation has primarily reflected technological breakthroughs brought about by for-profit ventures with the help and guidance of supportive government policies. Those policies might have been crystallised by the discussions at, and publicity surrounding, the COPs, though they were not the result of specific directives from those meetings or contained in the Paris agreement.

So, what should we hope emerges from COP28? COPs can produce two types of positive outcomes. The first are “big picture” outcomes, such as maintaining pressure on governments and corporations to reduce emissions. Here, it is important not only to reiterate the importance of reaching zero emissions and highlight how far we have yet to go, but also to recognise the progress that has already been made.

The second type of outcome is more granular. This year’s COP must mark the beginning of a process that will clarify what constitutes a valid carbon offset. Many corporations are currently expecting to reduce, but not eliminate, their emissions, on the assumption that they can buy carbon offsets to take them to net-zero. But the world obviously cannot get to zero emissions – the ultimate goal – if anyone is still emitting.

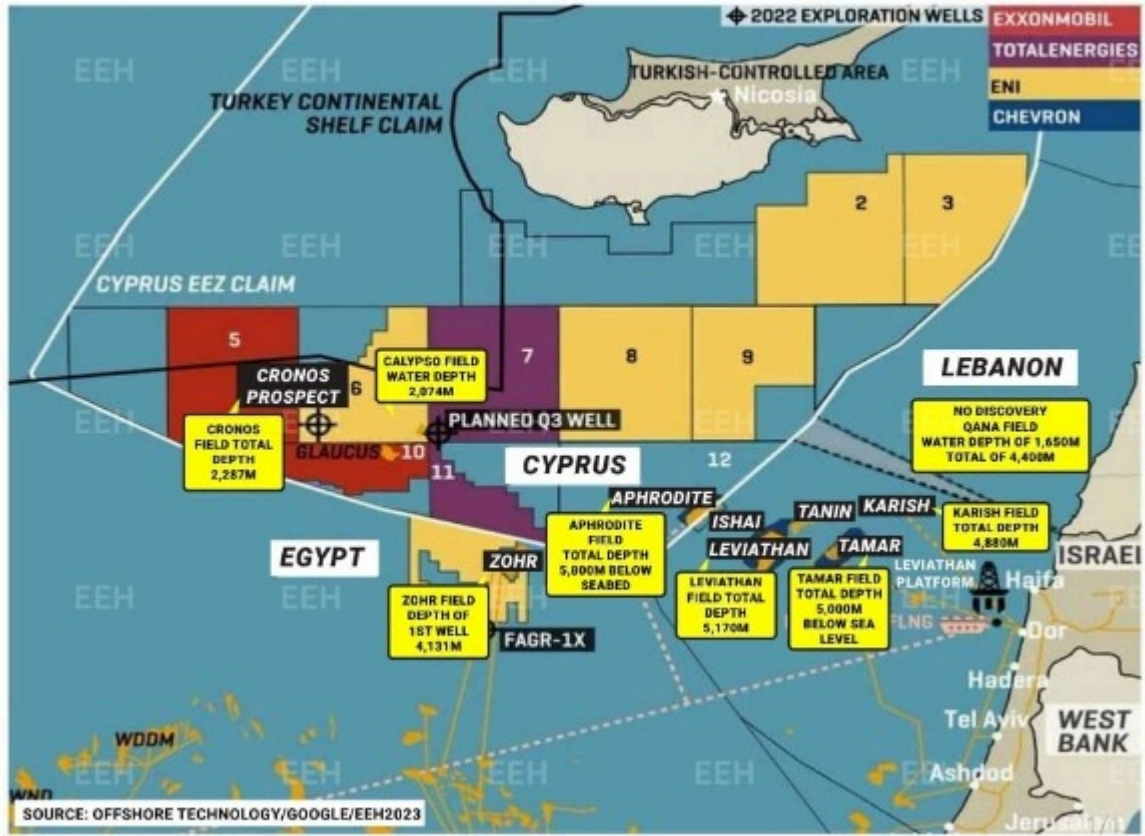
Equally important, it has lately become clear that many voluntary carbon offsets are worthless, as they do not meet the standard of additionality (the guarantee that the relevant emissions reductions would not have occurred without support from carbon credit sales) or avoid leakage (the shifting of emissions elsewhere). An international body must set clear standards for the validity of offsets and impose limits on

their use, and the UNFCCC is the obvious candidate. COP28 has the potential to encourage further climate action, including the introduction or strengthening of policies that can lead to emissions-reducing technological breakthroughs, as well as to deliver a much-needed rulebook on important technical issues, such as the use of offsets. Whether it succeeds depends entirely on execution. – Project Syndicate

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**بارودي مٌصرٌ على التفاؤل
وينشر الخارطة: اكتشاف الغاز لا
يكون دائما من خلال حفر البئر
الاول**

EASTERN MEDITERRANEAN GAS PLAY: AVERAGE OF SEAWATER DEPTH FOR GAS DISCOVERIES WELLS



بارودي مٌصرٌ على التفاؤل وينشر الخارطة: اكتشاف الغاز لا يكون دائماً من خلال حفر البئر الاول

الدراسات والأبحاث تؤكد ان احتمالات اكتشاف الغاز في المياه اللبنانية مرتفعة جداً

”خاص“ اخبار اليوم

أكد الخبير في شؤون الطاقة رودي بارودي أن القصة لم تنته مع عدم اكتشاف الغاز في البئر الاول إذ أنه من المهم جداً معرفة أن كل بلوك بحري يجب تقسيمه إلى عدد من الآبار ومن الطبيعي جداً أن تقوم شركات الاستكشاف بحفر آبار عدة قبل اكتشاف البئر الرئيسي الذي يحتوي على مخزون تجاري من الغاز .

و في حديث الى وكالة ”أخبار اليوم“، اوضح بارودي إنه لم ييأس من عدم اكتشاف الغاز في البئر الأول، ذلك أن أكبر حقل للغاز في البحر المتوسط الذي هو حقل ”ظهر“ والذي يقع في منطقة بلوك شرق في مصر، ويمتد على الحدود بين مصر وقبرص. كانت حقوق استغلال هذا

الحقل تعود لشركة شل لمدة 15 عاماً ، وخلال هذه الفترة قامت الشركة بحفر العديد من الآبار ولكنها لم تنجح في العثور على أي كميات من الغاز حتى قامت ببيع حقوق الاستكشاف لشركة إيني الإيطالية في عام 2015، التي بدورها حفرت بئراً واحداً على عمق 5100 متر لتجد أكبر مخزون من الغاز في شرق المتوسط والمقدر بـ 850 مليار متر مكعب.

ورأى بارودي أن هذا الأمر يشير إلى أن اكتشاف الغاز لا يكون دائماً من خلال حفر البئر الأول. وقد تكرر هذا الأمر مع حقول الغاز في قبرص إذ إنه لم تكتشف أي كمية من الغاز التجاري في البئر الأول، علماً أن حقل أفروديت في قبرص والقريب من لبنان احتاجت شركة نوبل لحفر بئر على عمق 5800 متر لكي تجد الغاز، والخريطة المرفقة تبين الأعماق في البحر في كل من قبرص واسرائيل ومصر للحقول المستكشفة ومنها: كاريش (٤٨٨٠ متر) ، تمار (٥٠٠٠ متر) ، لفثيان (٥١٧٠ متر) ، افروديت (٥٨٠٠ متر) ، كرونوس (٢٢٨٧ متر) ، طُهر (٤١٣١ متر) ، (كاليبسو (٢٠٧٤) متر).

من هنا من غير الجائز علمياً القول بأنه لا يوجد كميات من الغاز التجاري في البلوك 9 إذ ان عملية الاستكشاف لم تشمل لغاية تاريخه إلا بئراً واحداً وعلى عمق فقط 3500 متر.

أما عن وجود مؤامرة تقوم بها شركات التنقيب، فقال بارودي: من المؤسف أن بعض المحللين وخبراء النفط يتحدثون عن مؤامرة يقوم بها الكونسورتيوم المكون من شركات عالمية وهي إيني، توتال، وقطر للطاقة وهي من الشركات العملاقة في مجال الطاقة والتي لا تدخل في البازار السياسي ولديها مصالح في كل بلاد العالم.

واضاف: علينا أن نستفيد من وجودها في لبنان بدل اتهامها ورمي الشائعات عليها. ولكن من الممكن أن يؤثر الوضع العام الحالي، وخصوصاً أن الحرب دائرة على حدودنا أن تقوم الشركات بتعليق أنشطتها مؤقتاً ريثما تنجلي الصورة.

وتابع: الاتفاق المبرم بين الدولة اللبنانية والكونسورتيوم المكلف بالاستكشاف ينص على أن تقوم الشركات بحفر اثنين من آبار الاستكشاف قبل أن يتخذ قرار بشأن وجود الغاز أو عدمه. من هنا، فإن بث الأجواء السلبية وفكرة المؤامرة لا تفيد لبنان بشيء، بل على العكس، علينا المثابرة بالعمل للحفاظ على حقوقنا.

وختم: كما من واجب الحكومة والمجلس النيابي المباشرة فوراً بالاصلاحات المالية والاقتصادية المطلوبة من لبنان لكي نستطيع أن

نواكب عمليات الاستكشاف، فلا تذهب الثروة النفطية الموعودة في نهر الفساد الجارف الذي نعاني منه.

Natural gas consumption projected to rise, share in global energy mix to go up to 26% by 2050: GECF



GECF

Natural gas consumption is projected to increase by 36% even as its contribution to the global energy mix will go up from the current 23% to 26% by 2050, Doha-headquartered GECF said in its updated Global Gas Outlook.

The outlook foresees a sustained increase in primary energy consumption over the next three decades. This growth is underpinned by a rising global population and a doubling of the global economy's size by 2050.

Natural gas' leadership position establishes it as the

dominant energy source, surpassing coal, oil, and even renewables, despite the latter being the fastest-growing energy sector during this period.

Following the 25th GECF Ministerial Meeting in Malabo, Equatorial Guinea, the Gas Exporting Countries Forum, examined recent short-term gas market developments and immediate prospects.

The meeting noted with satisfaction the continued growth in natural gas demand, and number of LNG importing countries, and despite a mild winter season, expanded renewable and nuclear energy output, and policy-driven demand reduction measures in some countries.

It also recognised the resilience of global gas supply, as well as the sustainable gas output of GECF member countries, which contributes to strengthening global energy security.

While prices have markedly softened in comparison of last year's summer levels, and volatility has declined, gas markets will nevertheless continue to be tight should the upcoming winter be colder than normal in the Northern Hemisphere.

The ministers also noted that in the medium term, market tightness will begin to ease after 2025 when the majority of new LNG projects are set to be commissioned, with GECF member countries spearheading this expansion.

The meeting welcomed the efforts of GECF member countries in reducing gas flaring, methane emissions, and the carbon footprint of natural gas operations.

It also underscored the crucial role of technology in making natural gas even cleaner, such as carbon capture, utilisation, and storage, as well as low-carbon hydrogen and ammonia.

It resoundingly affirmed its unwavering support for African nations in their resolute pursuit of eradicating energy poverty, recognising the profound urgency of this mission in the face of grim statistics. It is a stark reality that over 600mn individuals in Africa still lack access to electricity, while more than 970mn do not have access to clean cooking.

Moreover, the Meeting underscored the pressing role of the United Nations Sustainable Development Goals (UN SDGs) and the

imperative of implementing them in a comprehensive and harmonious manner, considering their economic, social, and environmental dimensions.

This holistic approach resonates with the concerns highlighted in the recent UN SDG progress report, which regrettably reveals that nearly half of the targets are behind schedule. GECF asserted the essential role of investment and the necessity of fostering an environment that encourages unrestricted investment and promotes financial cooperation across continents.

It also emphasised the importance of ensuring equitable access to all technologies. These actions are instrumental in safeguarding the stability of both energy demand and supply, taking into account national circumstances, capabilities, and priorities.

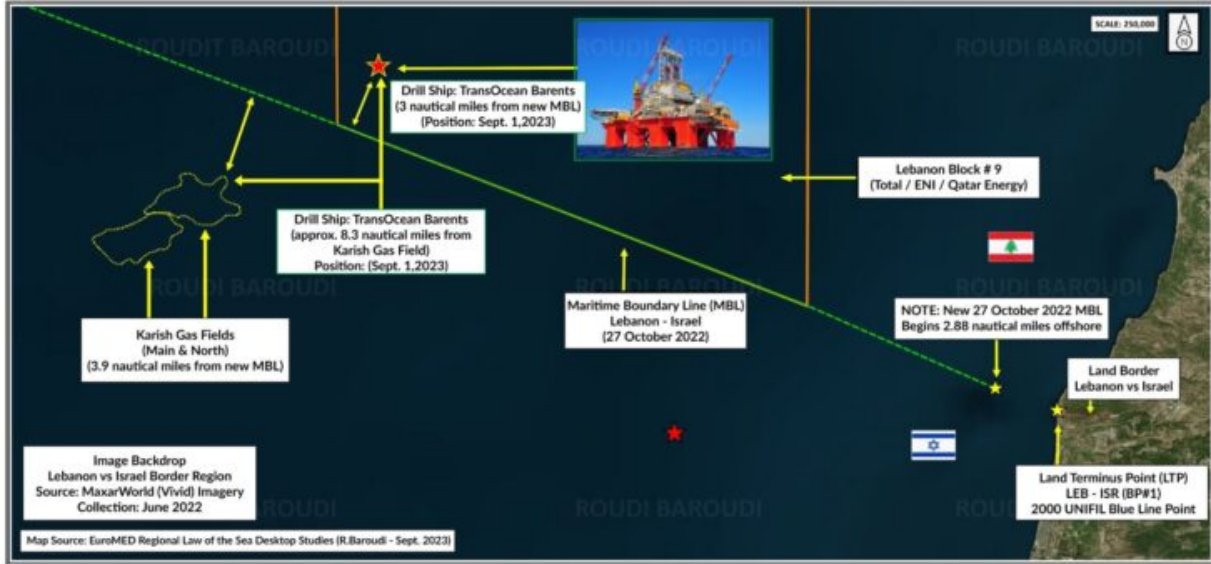
In this context, the meeting cautioned against misguided calls to halt natural gas investment. Such actions could lead to supply shortages, inflated prices, and a potential return to coal, as seen in 2022, undermining emission reduction objectives.

Furthermore, it reiterated the crucial significance of safeguarding critical gas infrastructure, both on a national and international scale, to facilitate the seamless flow of natural gas. It underscored the imperative of protecting these facilities from natural disasters, technological mishaps, man-made threats, and deliberate attacks.

**لبنان أمام فرصة تاريخية...
شرط أن يُحسن استغلالها بارودي:**

احتمال وجود كميات تجارية في البلوكات 8 و 9 و 10 مرتفعة جداً

LEBANON – ISRAEL MARITIME BORDER REGION EXPLORATION RIG LOCATION & ITS VICINITY TO KARISH FIELD



ميريام بلعة

المركزية- تتقدم عمليات الحفر واستكشاف النفط والغاز التي تجريها المنصة العائمة في الـ"بلوك 9" في المياه الإقليمية اللبنانية بقيادة "توتال إنرجي"، بوتيرة سريعة جداً من دون أي صعوبات أو عراقيل، بحسب المعلومات المتداولة في الساعات الأخيرة والتي رجّحت أن تصدر النتائج الأولية لعملية الحفر قبل 15 يوماً! من الموعد المحدّد

هذه المعطيات حملتها "المركزية" إلى خبير الطاقة الدولي رودي بارودي لاستشراف أي معطى جديد في الأمد القريب، وعمّا يتوقّعه من في TRANSOCEAN BARENTS المرحلة الاستكشافية مع بدء عمل الباخرة البلوك 9، فيجيب بارودي: لقد قام الكونسورتيوم الذي تترأسه شركة "توتال" والذي يضمّ شركات "توتال" و"إيني" و"قطر للطاقة" بما وعد به والتزم باستئجار هذه المنصة الاستكشافية الرئيسية. لكن للأسف، لم تقم الحكومة اللبنانية بدورها بعد، فلبنان يحتاج أولاً وقبل كل شيء إلى انتخاب رئيس للجمهورية وهو أمر مهم جداً للبلاد. كما على السلطات اللبنانية القيام بالكثير من الإصلاحات العاجلة، والأكثر إلحاحاً هو إحياء و/أو تعيين هيئة جديدة لإدارة قطاع البترول

اللبنانية، علماً أنه تم تشكيل الهيئة في العام 2012، وقام أعضاؤها بأعمال كثيرة ومهّداً الطريق أمام عملية الاستكشاف، إنما انتهت مدة ولاية الهيئة في العام 2018، ومنذ ذلك الحين غادر العديد من أعضائها لبنان أو استقال.

ويُضيف: الإصلاح الثاني الأكثر أهمية هو الإصلاح القضائي على المستويات كافة من أجل حماية مصالح لبنان وشركات النفط والغاز الكبرى. ومن المعروف أن القضاء المستقل يجذب الاستثمارات المهمة، من هنا فإن استعادة الثقة بالقضاء وعلى كل الأصعدة، واجبٌ. إضافة إلى ذلك، من الضروري تطبيق الإصلاحات المطلوبة من المجتمع الدولي ولا سيما الإصلاحات المالية التي تعطي الثقة مجدداً بالقطاع المصرفي، وبالطبع يجب إقرار قانون صندوق سيادي يوافق بين الحاجات اللبنانية والمبادئ العالمية، خصوصاً لناحية الشفافية. لذلك ينبغي القيام بدراسة معمّقة لقانون الصندوق السيادي ليكون صندوقاً شفافاً يمكنه أن يؤدي واجباته على أكمل وجه، خصوصاً أن الثروة النفطية هي ملك الشعب اللبناني ويفترض عدم التفريط بها.

ولم يغفل بارودي الإشارة في هذا المجال، إلى أنه "في حال وجد لبنان النفط في مياهه الإقليمية، فإن الاستثمار الأجنبي المباشر الذي سيحتاجه الكونسورتيوم الذي تترأسه "توتال"، سيتراوح (FDI) بالتأكيد ما بين 1 و3 مليارات دولار، وذلك حسب البنية التحتية اللازمة. علماً أن الاستثمار الأجنبي المباشر يحتاج دائماً إلى "سيادة القانون والشفافية المطلقة والاستقرار السياسي".

"موجودات الـ"بلوك 9"

وعن رأيه في احتمالية موجودات الـ"بلوك 9" وعمّا إذا كان هناك من أمل، يقول بارودي "إذا نظرنا إلى هذه الخريطة الحصريّة سنرى من BARENT Ocean Rig لـ"المركزية" والتي تُظهر موقع باخرة موقعها أنها بالكاد تبعد 3 أميال فقط عن خطوط الحدود البحرية الجديدة بين لبنان وإسرائيل. وإذا نظرنا أيضاً إلى الجنوب الغربي، فهي بعيدة حوالي 8.3 أميال، هذه هي المسافة التي تفصلها عن حقل غاز "كاريش". إضافة إلى ذلك، فإن أن سفينة الحفر لا تبعد أكثر من 25-30 ميلاً عن الخطوط البحرية اللبنانية القبرصيّة حيث تم اكتشاف كميات تجارية. من هنا، فإن احتمال وجود كميات تجارية في البلوكات اللبنانية 8 و9 و10 وفقاً لعلماء الجيولوجيا، الأميركيين، مرتفعة جداً.

ويُلفت في هذا السياق، إلى أن "مساحة الـ"بلوك 9" تبلغ حوالي ± 1700 كيلومتر مربع، ومساحة الـ"بلوك 8" من ± 1400 كيلومتر مربع، ومساحة الـ"بلوك 10" ± 1380 كيلومتراً مربعاً على بُعد أميال قليلة جنوباً، حيث تقع حقول الغاز مثل "تمار" و"كاريش" و"ليفياثان"، ويُضيف: يتمتّع لبنان وحوض "ليفياثان" بشكل عام، بإمكانات عالية جداً ليس فقط في البحر إنما أيضاً في البر. هذا ما أكّده دراسات عديدة موثوقة منذ العام 1992.

ويختم بارودي: بالتالي، هناك إمكانات كبيرة لاستكشافات تجارية واعدة، ما يحتاج إليه لبنان هو الاستعداد لتلقي الموارد النفطية والغازية بطريقة آمنة لضخ هذه الثروة في الاقتصاد والتنمية الاجتماعية والرعاية الصحية، وإطفاء الديون المالية... كل ذلك، شرط إجراء إصلاحات حقيقية وعلى كل الأصعدة المالية والاقتصادية، وإبعاد المناكفات السياسية عن هذا الملف الحساس.

Human-centric globalization: Taking G20 to the Last Mile, Leaving none behind



वसुधैव कुटुम्बकम्
ONE EARTH • ONE FAMILY • ONE FUTURE



Vasudhaiva Kutumbakam – these two words capture a deep philosophy. It means ‘the world is one family.’ This is an all-embracing outlook that encourages us to progress as one universal family, transcending borders, languages and ideologies. During India’s G20 presidency, this has translated into a call for human-centric progress. As One Earth, we are coming together to nurture our planet. As One Family, we support each other in the pursuit of growth. And we move together towards a shared future – One Future – which is an undeniable truth in these interconnected times.

The post-pandemic world order is very different from the world before it. There are three important changes, among others.

First, there is a growing realization that a shift away from a GDP-centric view of the world to a human-centric view is needed.

Second, the world is recognizing the importance of resilience and reliability in global supply chains.

Third, there is a collective call for boosting multilateralism

through the reform of global institutions.

Our G20 presidency has played the role of a catalyst in these shifts.

In December 2022, when we took over the presidency from Indonesia, I had written that a mindset shift must be catalyzed by the G20. This was especially needed in the context of mainstreaming the marginalized aspirations of developing countries, the Global South and Africa.

The Voice of Global South Summit in January 2023, which witnessed participation from 125 countries, was one of the foremost initiatives under our presidency. It was an important exercise to gather inputs and ideas from the Global South. Further, our presidency has not only seen the largest-ever participation from African countries but has also pushed for the inclusion of the African Union as a permanent member of the G20.

An interconnected world means our challenges across domains are interlinked. This is the midway year of the 2030 Agenda and many are noting with great concern that the progress on SDGs is off-track. The G20 2023 Action Plan on Accelerating Progress on SDGs will spearhead the future direction of the G20 towards implementing the SDGs.

In India, living in harmony with nature has been a norm since ancient times and we have been contributing our share towards climate action even in modern times.

Many countries of the Global South are at various stages of development and climate action must be a complementary pursuit. Ambitions for climate action must be matched with actions on climate finance and transfer of technology.

We believe there is a need to move away from a purely restrictive attitude of what should not be done, to a more constructive attitude focusing on what can be done to fight

climate change.

The Chennai High-Level Principles for a Sustainable and Resilient Blue Economy focus on keeping our oceans healthy.

A global ecosystem for clean and green hydrogen will emerge from our presidency, along with a Green Hydrogen Innovation Center.

In 2015, we launched the International Solar Alliance. Now, through the Global Biofuels Alliance, we will support the world to enable energy transitions in tune with the benefits of a circular economy.

Democratizing climate action is the best way to impart momentum to the movement. Just as individuals make daily decisions based on their long-term health, they can make lifestyle decisions based on the impact on the planet's long-term health. Just like yoga became a global mass movement for wellness, we have also nudged the world with Lifestyles for Sustainable Environment (LiFE).

Due to the impact of climate change, ensuring food and nutritional security will be crucial. Millets, or Shree Anna, can help with this while also boosting climate-smart agriculture. In the International Year of Millets, we have taken millets to global palates. The Deccan High Level Principles on Food Security and Nutrition is also helpful in this direction.

Technology is transformative but it also needs to be made inclusive. In the past, the benefits of technological advancements have not benefited all sections of society equally. India, over the last few years, has shown how technology can be leveraged to narrow inequalities, rather than widen them.

For instance, the billions across the world that remain unbanked, or lack digital identities, can be financially

included through digital public infrastructure (DPI). The solutions we have built using our DPI have now been recognized globally. Now, through the G20, we will help developing countries adapt, build and scale DPI to unlock the power of inclusive growth.

That India is the fastest-growing large economy is no accident. Our simple, scalable and sustainable solutions have empowered the vulnerable and the marginalized to lead our development story. From space to sports, economy to entrepreneurship, Indian women have taken the lead in various sectors. They have shifted the narrative from the development of women to women-led development. Our G20 presidency is working on bridging the gender digital divide, reducing labor force participation gaps and enabling a larger role for women in leadership and decision-making.

For India, the G20 presidency is not merely a high-level diplomatic endeavor. As the Mother of Democracy and a model of diversity, we opened the doors of this experience to the world.

Today, accomplishing things at scale is a quality that is associated with India. The G20 presidency is no exception. It has become a people-driven movement. Over 200 meetings will have been organized in 60 Indian cities across the length and breadth of our nation, hosting nearly 100,000 delegates from 125 countries by the end of our term. No presidency has ever encompassed such a vast and diverse geographical expanse.

It is one thing to hear about India's demography, democracy, diversity and development from someone else. It is totally different to experience them first-hand. I am sure our G20 delegates would vouch for this.

Our G20 presidency strives to bridge divides, dismantle barriers and sow seeds of collaboration that nourish a world where unity prevails over discord, where shared destiny

eclipses isolation. As the G20 president, we had pledged to make the global table larger, ensuring that every voice is heard and every country contributes. I am positive that we have matched our pledge with actions and outcomes.

TotalEnergies takes control of renewables firm for \$1.66bn



Chief executive officer Patrick Pouyanne has pledged to spend \$5bn this year on low-carbon energies – almost a third of total capital expenditure – as the company reduces its exposure to petroleum with ongoing sales of Canadian oilsands assets and some of its European service stations. By buying out the 71% in Total Eren it doesn't already own,

TotalEnergies gains full control of a firm that has 3.5 gigawatts of operating solar, wind and hydropower assets, with a project pipeline of more than 10 gigawatts, it said Tuesday. The purchase should increase the net operating income of its power division by around €160mn next year, and operating cash flow by about €400mn. The renewable energy company, founded in 2012 by Paris Mouratoglou and David Corchia, operates in more than 20 countries, including Brazil, India and Greece. It recently teamed up with Kazakh partners to invest \$1.4bn in a giant wind and battery-storage project in the Central Asian nation, and is also developing green hydrogen in North Africa, Latin America and Australia. Eren Groupe SA, which is led by Mouratoglou and Corchia, said it will use the proceeds of the Total Eren sale to further invest in the energy management in buildings, energy recovery from organic sludge and wastewater, biomass farming as well as renewable gas and green hydrogen production. The company will also keep investing in new nuclear technologies after buying stakes in reactor startups Jimmy Energy and Naarea last year. Bpifrance, Tikehau Capital SCA, Peugeot Invest and Next World Capital LLC, which have been investing in Total Eren in several steps since 2015, sold their minority stake to TotalEnergies, according to a joint statement yesterday. They earned more than twice the amount they invested. TotalEnergies bought an initial stake of 23% in Eren for €237.5mn in 2017, and subsequently increased its interest to near 30%. In the past year or so, the French major also snapped up 50% of US renewable developer Clearway Energy Group for \$2.4bn and 34% of Brazil's Casa dos Ventos for as much as \$580mn.

Saudi Aramco considers selling \$50bn in shares



Saudi Aramco is considering selling a 2.5% stake in the company worth \$50 billion, the Wall Street Journal is reporting.

Mohammed Bin Salman, crown prince of Saudi Arabia, is said to be pushing the secondary share sale of the company and aiming to complete the deal by year-end.

The WSJ said Aramco has been “sounding out” potential investors, such as other multinational oil companies and sovereign wealth funds, about participating in the deal.

The kingdom is said to have decided to host the offering on the Riyadh Stock Exchange to avoid legal risks associated with an international listing, the report said, citing Saudi officials and other people familiar with the plan.

The WSJ said Saudi Arabia had planned to sell Aramco shares worth up to \$50 billion last year, but decided that market conditions were unfavourable.

Saudi Aramco is **said to be** the world's biggest oil company, with a market value of \$2.25 trillion.

In 2019, the company **executed the largest initial public offering (IPO) in history**, raising \$25.6 billion, and then sold additional shares to increase the total to \$29.4 billion.

In 2022, Saudi Aramco reported a record net profit of \$161.1 billion – its highest annual profit as a listed company.

IEA Raises World Oil Demand Forecast In 2023 Towards All-time High



The International Energy Agency said Friday it had revised

upwards its forecast for global oil demand growth in 2023 as demand is “scaling record highs”.

World oil demand already hit a record 103 million barrels per day in June and August and “could see yet another peak”, the Paris-based IEA said in its monthly report.

“For 2023 as a whole, global oil demand is set to expand by 2.2 million barrels per day to 102.2 million barrels per day,” it said.

China accounted for 70 percent of growth, the IEA said, adding that demand in the Asian giant was “also stronger than expected, reaching fresh highs despite persistent concerns over the health of the economy”.

“World oil demand is scaling record highs, boosted by strong summer air travel, increased oil use in power generation and surging Chinese petrochemical activity,” the IEA said.

The forecasted expansion in global demand in 2023 would mark its “highest ever annual level”, according to the agency, which in February had already forecast an annual record for the year of 101.9 million barrels per day.

The increasing demand for oil comes amid tensions on world markets after significant output cuts by several members of the OPEC+ alliance – made up of 13 members of the Organization of the Petroleum Exporting Countries (OPEC) headed by Saudi Arabia and their 10 allies led by Russia – to prop up prices.

As a result, global oil supply plunged by 910,000 barrels per day in July, to 100.9 mbd, the IEA said in its report.

A sharp reduction in production by Saudi Arabia last month saw output from the 23-nation OPEC+ alliance fall 1.2 million barrels per day, to 50.7 mbd “a near two-year low”.

Volumes by non-OPEC+ members rose to 50.2 mbd, the report added.

In April, several OPEC+ members decided to slash production voluntarily by more than one million bpd – a surprise move that briefly buttressed prices but failed to bring about lasting recovery.

Oil producers are grappling with falling prices and high market volatility, reflecting continued fallout from the Russian invasion of Ukraine and China's faltering economic recovery.

Saudi Arabia also announced last week that it was extending its voluntary oil production cut of one million barrels per day for another month to include September.

Moscow has pledged, too, to cut production by 500,000 bpd in August, and a further cut of 300,000 bpd for September.

"Market balances are set to tighten further into the autumn as Saudi Arabia and Russia extend supply cuts at least through September," the IEA said.

If the bloc's current targets are maintained, oil inventories could fall in the second half of the year "with a risk of driving prices still higher".

Looking ahead to 2024 as the world races to combat climate change and reduce the use of fossil fuels, the IEA said it anticipated demand growth to slow.

"With the post-pandemic rebound running out of steam, and as lacklustre economic conditions, tighter efficiency standards and new electric vehicles weigh on use, growth is forecast to slow to 1 mbd in 2024," it said.

Carbon Capture and Delay



As long as coal plants are still operating, it is a good idea to require them capture their carbon dioxide emissions. But those designing policies to hasten such practices must tread carefully, lest they unwittingly extend the life of dirtier energy sources.

NEW YORK – In May, the US Environmental Protection Agency proposed new power-plant rules that would effectively require every existing coal- or gas-fired plant in the United States either to capture and store most its carbon dioxide emissions, or to switch to burning low-emissions “green hydrogen.” Yet it would be cheaper to replace America’s more than 200 coal-fired plants with new solar or wind facilities, and then to do the same with its gas plants soon thereafter.

This claim will surely be met with cries of: “It’s not that simple! You also have to account for the Earth’s rotation, cloud cover, and a lack of wind.” Indeed, one also must acknowledge ever-present NIMBYism, long-term energy contracts, and other complexities that stand in the way of immediately swapping coal for solar. But nobody is seriously suggesting shutting down every fossil-fueled power plant everywhere all

at once. The transition will take time.

Time, of course, is relative. Even the new EPA rules would be phased in gradually, with the real bite coming only in the next decade. But we can't wait for the EPA's rules to bite and force the changes, nor should we. And the "we," in this case, includes everyone from consumers to local energy regulators to utility executives and banks planning their investment decisions.

Carbon capture and storage (CCS) is a godsend, and green hydrogen has the potential to be one, too. But, looking to the next decade and beyond, we also will be deploying many other advanced climate-tech solutions, from better batteries to smarter grids. Given the urgency of the climate crisis and all the new technologies coming down the pike, it makes little sense to wait for the EPA's new rules to force changes years from now.

Power-plant economics are changing fast. In 2019, the think tank Energy Innovation published its first "coal cost crossover" report, which found that 62% of US coal plants were more expensive to run than to replace with local solar or wind generation. By 2021, that figure had risen to 72%; and as of earlier this year, it was 99%. With the exception of one coal plant in Wyoming, it would be cheaper to produce electricity with solar or wind, plus battery storage, than to keep the existing coal fleet up and running.

While the 2023 figure accounts for the expanded solar and wind tax credits under the Inflation Reduction Act, it does not include additional incentives like those provided by the IRA's loan program, which utilities can tap to help finance renewables. More to the point, it came before the new EPA proposals, raising the question of what effects these rules might have.

For the most part, the EPA's rule changes are standard

regulatory fare, reflecting the need to pass muster with a Supreme Court that is intent on curtailing federal regulators' powers. Instead of allowing for flexibility in achieving carbon-reduction goals, the EPA is taking a more direct approach, essentially mandating that existing coal plants capture and store their released carbon. But especially in connection with generous IRA subsidies for CCS technology, US policymakers may be unwittingly throwing a lifeline to coal plants that would otherwise be economically unviable.

When considered in isolation, the EPA rule is clearly good for the environment and for public health, since it would significantly decrease particulate matter and ozone pollution. But assessments of CCS tend to get murky fast. Lest we forget, Donald Trump and his advisers were big fans of the technology, which they saw as a way "to help coal and still help the climate."

Since combining CCS with coal will always be more expensive than burning coal outright, mandating CCS, in theory, should indeed make coal even less competitive than it already is. But CCS mandates do not operate in a vacuum.

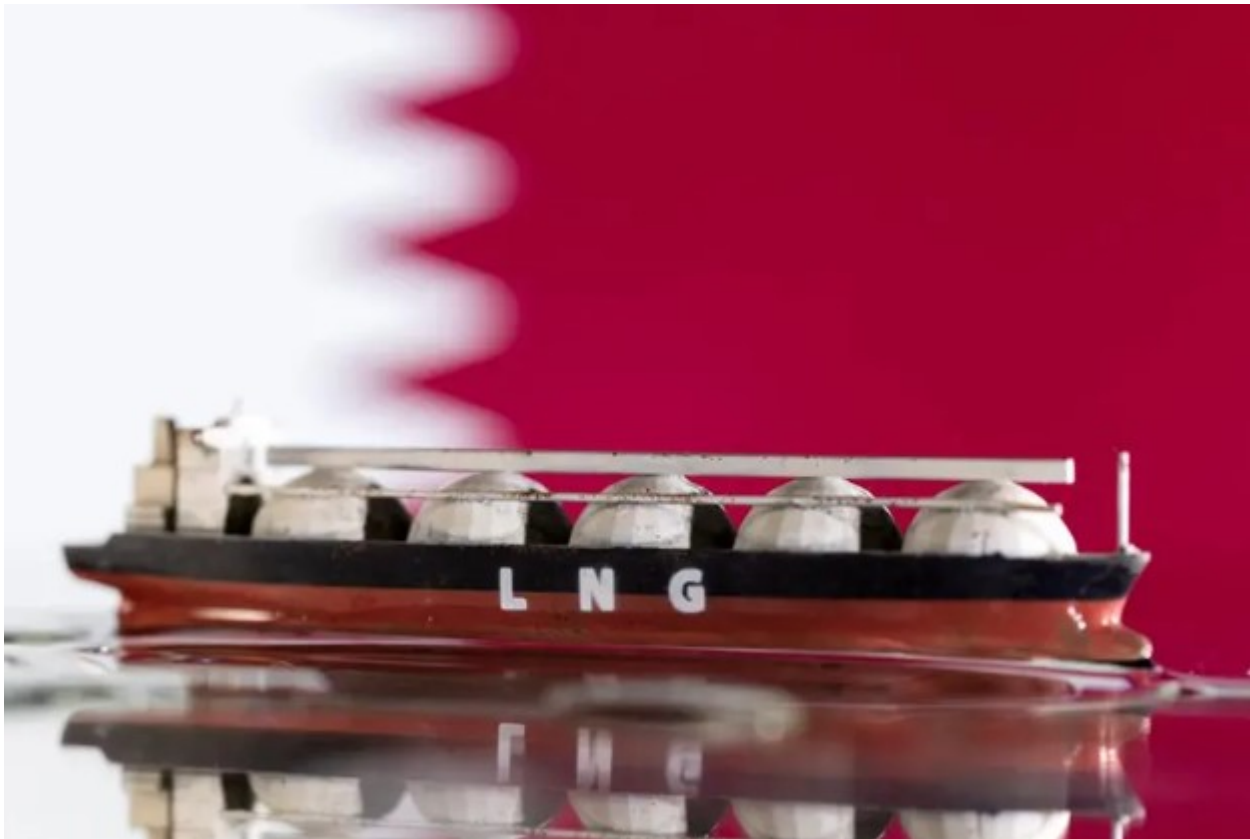
In practice, operating licenses for coal plants are not issued by the same people writing federal rules. These decisions are made at the state and local level, primarily through state-level public utility commissions that have many competing priorities. Even if they are committed to decarbonizing, one important goal is to keep the lights on. That goal, in turn, has all too often been interpreted as keeping current generation capacities profitable. When faced with new CCS mandates and accompanying subsidies, they may simply see an opportunity to maintain coal-plant profitability for longer.

How can federal policymakers get around this problem? Broadly speaking, the focus should be on pushing cheaper solar and wind power into the system, as that will force coal- and gas-plant operators' hands. We also need better, nimbler planning

and investment processes, to allow for grid-connection rights to be reassigned from coal plants to renewables that would be built in their stead. As matters stand, most US states do not give consumers a choice about how their electricity is generated. That needs to change.

As long as coal plants are still operating, it is a good idea to make them capture their CO₂ emissions. But that does not mean it is a good idea to be helping them continue to operate. The sooner that coal is replaced by renewables, the better it will be for the planet, consumers, and even utility companies.

Qatar second top global LNG exporter, top GECF exporter in June



Qatar was the second top global LNG exporter in June, latest data from the Gas Exporting Countries Forum (GECF) has shown. Among the GECF member countries, Qatar topped in liquefied natural gas exports last month.

Total global LNG exports reached 32.18mn tonnes during June. The increase in LNG exports from non-GECF countries and a rise in LNG reloads outweighed the lower LNG exports from GECF member countries.

The share of non-GECF countries and LNG reloads in global LNG exports increased from 50% and 0.6%, respectively, from a year earlier to 50.4% and 0.8% in June 2023.

Conversely, GECF's market share in global LNG exports decreased from 49.4% to 48.8%.

During H1, 2023, cumulative global LNG exports reached 205.45mn tonnes, indicating a 4.1% increase (8.06mn tonnes) y-o-y.

Last month, the US, Qatar and Australia were the top LNG exporting countries, GECF noted.

In June, LNG exports from GECF member countries and observers declined by 1% (0.15mn tonnes) y-o-y, reaching a total of 15.69mn tonnes.

The weaker LNG imports were driven by Russia, Egypt, Nigeria, Malaysia, Equatorial Guinea, Norway and the United Arab Emirates.

Conversely, LNG exports increased in Qatar, Angola, Algeria, Mozambique, Trinidad and Tobago and Peru.

During H1, 2023, cumulative LNG exports from GECF member and observer countries increased by 2.2% (2.13mn tonnes) y-o-y, totalling 99.93mn tonnes.

In Russia, higher maintenance activity at the Sakhalin 2 and Yamal LNG facilities led to a reduction in LNG exports, the report said.

Lower feedgas availability in Egypt and Nigeria contributed to the decline in LNG exports in both countries.

In June, Egypt did not export any LNG cargo.

The decline in Malaysia's LNG exports was mainly attributed to weaker exports from the Bintulu LNG facility.

An unplanned outage at the Hammerfest LNG facility caused a drop in LNG exports from Norway.

On the other hand, lower maintenance activity at the Qatargas LNG and Soyo LNG facilities boosted LNG exports from Qatar and Angola.

In Algeria and Trinidad and Tobago, higher feedgas availability supported the increase in LNG exports from both countries.

The continued ramp-up in LNG exports from the Coral South FLNG facility drove Mozambique's LNG exports higher.

In June, global LNG imports expanded sharply by 6.8% (2.09mn tonnes) y-o-y to reach 32.85mn tonnes.

This growth was primarily driven by a strong rebound in Asia Pacific's LNG imports, with higher imports in Europe and Latin America and the Caribbean (LAC) also having some contribution. Conversely, the Middle East and North Africa (Mena) region experienced a decline in LNG imports.

During the first half (H1) of 2023, cumulative global LNG imports grew by 4% (7.95mn tonnes) y-o-y to 206.62mn tonnes.

The bulk of the increase in global LNG imports during H1 2023 came from Europe, followed by Asia Pacific, LAC and North

America. This offset the lower LNG imports in the Mena region, GECF noted.