

OPEC Still Gridlocked on Meeting Date Amid Iran-Saudi Schism



With just two weeks remaining before they're supposed to gather in Vienna, OPEC and its allies are still struggling to settle on a meeting date. It's the latest example of how bitter geopolitical rivalry between Saudi Arabia and Iran can cause gridlock in the cartel.

The Organization of Petroleum Exporting Countries and its partners, an alliance that spans 24 oil-producing nations, must choose whether to extend production cuts into the second half of the year or end a pact that has put a floor under prices. It's a decision of growing urgency as a deteriorating global economy and entrenched trade war batter crude prices.

Yet for the past three weeks they've been fruitlessly juggling dates after Russia, the biggest non-OPEC producer in the coalition, sought to shift the meeting to early July. Now, as countries that initially resisted Russia's proposal give it their support, delegates familiar with the matter say opposition comes from just one nation: Iran.

It's almost certainly no coincidence that this intransigence comes as its longtime foe, Saudi Arabia, and other OPEC

nations take the Islamic Republic's market share while its crude exports are squeezed by U.S. sanctions.

"This seems to be about flexing muscles, marking territory," said Helima Croft, chief commodities strategist at RBC Capital Markets in New York. "Digging lines in the sand because you can."

Iranian crude production has tumbled to the lowest in three decades as President Donald Trump pressures the country to renegotiate an accord on its nuclear program, data compiled by Bloomberg show. Meanwhile the Saudis, a religious and political adversary of Tehran, have aided Trump by raising their own crude production.

As tensions mount, hostilities have flared in the Persian Gulf, where Saudi oil tankers and pipeline infrastructure have suffered attacks that the kingdom has blamed on Iran.

Despite the political friction, OPEC is still broadly holding together on oil-supply policy. Even though Saudi Arabia has boosted crude production, it's still abiding by output limits agreed with the rest of the group at the end of last year, and wants these to be renewed when the cartel meets, whenever that may be.

Whether the group decides to gather at the end of this month or in July, there are currently no challenges to reaching an agreement, with the high level of stockpiles in the U.S. underscoring the need for a cuts extension at least until the end of the year, United Arab Emirates Energy Minister Suhail Al Mazrouei said at an event in Montreal on Tuesday.

"What's amazing about this dispute is that it has little to do with the actual content of the agreement – a rollover seems almost certain," said Croft.

Power Shift

When Russia last month proposed changing the date of the meeting – originally planned for June 25-26 – because of a domestic scheduling conflict, it seemed another case of OPEC's new ally demonstrating its influence. A previous gathering intended for April was scrapped at Moscow's request.

Ever since the partnership between OPEC and its erstwhile competitors was struck in late 2016, Russia has typically secured beneficial terms. Saudi Arabia, OPEC's biggest member, promptly supported Russia's request on the change of meeting dates.

"It might look like a minor scheduling issue, but actually it's a symptom of the shifting balance of power that's been underway since 2016, " said Derek Brower, a director at consultant RS Energy Group Inc. "Not just diary power, but actual pricing power is now decided by Russia and OPEC's Gulf producers."

Riyadh and Moscow may also prevail in the dispute over dates, which they're seeking to push to July 3-4. Countries that initially opposed Russia's request, such as Algeria and Nigeria, appear to have fallen in line, delegates say. Algeria dropped its objections after presidential elections in the country planned for July 4 were delayed, they said.

Sole Objector

That just leaves Iran, which insists that the original plan to convene on June 25-26 should stand. In a letter to OPEC's Vienna-based secretariat, the Islamic Republic cited its own schedule commitments for rejecting the date move, delegates said.

Venezuelan Oil Minister Manuel Quevedo, who this year holds OPEC's rotating presidency, is making another attempt this

week to persuade Tehran to accept the change after failing to win over Iranian Oil Minister Bijan Zanganeh, said the delegates.

What happens if he fails is unclear. A compromise of holding the meeting for OPEC members on June 25 as originally planned, and moving the gathering for non-OPEC producers to July, has been considered, delegates said.

However, OPEC's rules require consensus for the date of a conference to be altered, and without Iran's blessing the upcoming gathering will – at least theoretically – remain set for June 25.

As both Saudi Arabia and Russia now cite a conflict with commitments surrounding the Group of 20 summit in Japan taking place in late June, how they would respond if the dates aren't amended is uncertain.

"It's a fiasco," said Brower.

Oil, gas and fake news on the airwaves last night



Oil and gas industry = good. Foreign Policy Magazine = not good. Those were the main messages on the airwaves last night.

Al Hayah Al Youm's Lobna Assal focused on Oil Minister Tarek El Molla's attendance at the Observatoire Méditerranéen de l'Energie (OME) in Paris, where he revealed that **Egypt's oil and gas production has reached 1.9 mn bbl of oil equivalent a day**, the highest level in the country's history. Assal then spoke to ministry spokesman Hamdy Abdel Aziz about a number of ongoing projects in the oil, gas and petrochem sectors (watch, runtime: 7:02).

Fighting fake news with cold, hard facts: Morsi-era Investment Minister Yehia Hamed's hit piece in Foreign Policy earlier this week grabbed the attention of Al Hayah Al Youm's Khaled Abu Bakr, who highlighted a riposte currently doing the rounds online written by Madbouly's economic adviser Gihan Saleh (watch, runtime: 7:38). Saleh accuses Hamed of making "numerous false and incorrect statements" to "hide and distort facts." Abu Bakr also mentioned Al Shorouk's Ziad Bahaa El Din's review of the piece, which criticized Hamed's argument for being overtly political.

OPEN LETTER TO UN SECRETARY GENERAL ANTONIO GUTERRES



His Excellency António Guterres
Secretary-General
United Nations
United Nations Secretariat
New York, NY 10017
U.S.A.

**Re: Maritime Boundary Disputes in the Eastern Mediterranean:
Crises and Opportunities**

Excellency:

I write to request your urgent intervention in defusing a looming crisis directly affecting the vital interests of all coastal States in the Eastern Mediterranean as well as, indirectly, those of dozens of others in Europe, Asia and Africa. Specifically, your assistance is required to help resolve the inter-related maritime boundary disputes among the coastal States of the region in accordance with the principles and processes enshrined in the United Nations Charter and international law.

These longstanding boundary disputes have contributed to numerous confrontations between States in the past. The number and severity of international crises currently raging in the region and its periphery have increased tensions to dangerous levels. In addition, the relatively recent discovery of abundant oil and gas deposits offshore of several Eastern Mediterranean countries has dramatically raised the economic stakes attaching to maritime boundary disputes. As a result, several major powers – including the United States, the United Kingdom and France, on one side, and the Russian Federation, on the other – have significantly increased their naval and other military activities in the region. The presence of dozens more warships and warplanes in such a relatively enclosed geography virtually guarantees an increase in friction. As a result, it imperils the maintenance of peace and security in the region, and it hampers the economic development of the relevant coastal States and their peoples.

Only one thing can provide a chance for the lasting stability that has eluded the Eastern Mediterranean for so long: an integrated, interdisciplinary approach, based on “best law” and “best science”, one that resolves these maritime boundary disputes justly and fairly. The United States has used its good offices to promote, support, or even mediate various forms of dialogue among States in the region, and appears to have made some progress (especially between Lebanon and Israel). While this effort has helped to contain mounting

tensions, it has yet to resolve any of the key maritime boundary disputes in the region.

Excellency,

The best hope for effectively settling these matters in a timely fashion lies in greater involvement by the United Nations. The manner of that involvement may vary from case to case depending on the circumstances, but in general, only the UN and its institutions have both the legal and the moral authority to lead such processes to just and fair conclusions. I know I speak for millions of people I have never met when I respectfully request your personal intervention at this critical juncture.

The seven coastal States currently involved – Cyprus, Egypt, Greece, Israel, Lebanon, Syria, and Turkey – are all UN Member States. A possible eighth coastal State, Palestine enjoys both non-Member Observer State status at the UN, as well as official recognition by more than two-thirds of UN Member States. Cyprus, Egypt, Greece, Lebanon and Palestine have all signed and ratified the 1982 United Nations Convention on the Law of the Sea (UNCLOS). Israel is a party to the 1958 Convention on the Territorial Sea and the Contiguous Zone, and to the 1958 Convention on the Continental Shelf. The latter treaty has also been signed and ratified by Cyprus, while Lebanon has signed but not ratified the 1958 treaty. Syria and Turkey are not parties to any Law of the Sea treaties, but they are still bound by relevant rules of customary international law.

The International Court of Justice (ICJ), which is the UN's principal judicial organ, has affirmed in multiple cases that the maritime delimitation rules contained in UNCLOS reflect customary international law and, as such, are applicable generally. A body of jurisprudence regarding maritime boundary delimitation has developed through two dozen decisions by international courts and tribunals rendered over the past

half-century. This jurisprudence offers an authoritative guide for coastal States in solving their maritime boundary disputes.

In addition, like the legal framework and processes, the scientific landscape is now better defined – and therefore more predictable – than ever before. The latest mapping technologies and techniques are so reliable that what were once unpredictable variables can now be estimated with amazing precision. This means that any international court or arbitral proceedings or other means of maritime boundary dispute resolution are rooted not just in the same laws and rules, but also in the same science. As a result, governments can now enter into such processes and predict, with a high degree of certainty, what the outcomes will be, removing much of the guesswork that might otherwise cause them to demur or delay.

For purposes of the legal and scientific rules applicable to maritime boundary delimitation under contemporary international law, a total of 12 maritime boundaries can be said to cover the maritime spaces for the seven coastal States in the Eastern Mediterranean. At present only two bilateral maritime boundary treaties have been signed in the region: 1) the Agreement between the Republic of Cyprus and the Arab Republic of Egypt on the Delimitation of the Exclusive Economic Zone of 17 February 2003 (entry into force 7 March 2004); and 2) the Agreement between the Government of the State of Israel and the Government of the Republic of Cyprus on the Delimitation of the Exclusive Economic Zone of 17 December 2007 (entry into force 25 February 2011). This means that no fewer than 10 potential boundaries and more than six tri-junction points (or “tri-points”) – i.e., more than 83% of the total maritime area of the Eastern Mediterranean – remain unresolved or in dispute.

As of April 2019, all seven coastal States in the Eastern Mediterranean had active offshore hydrocarbon industries, with approximately 238,135 square kilometers of waters covered by

some 231 available Oil and Gas Blocks, representing just over 51% of the total offshore waters in the region. Of the present-day blocks currently on offer, up to 36% can be classified as “contentious” due to uncertainties regarding the exact locations of maritime boundaries.

As a consequence of the uncertainties surrounding the vast majority of the maritime boundaries in the Eastern Mediterranean, future economic development stemming from seabed hydrocarbon discoveries and exploitation will be negatively affected, thereby reducing overall revenues for the region. (NB: for the Mediterranean Sea as a whole, there are 95 maritime boundaries, of which only 31 (or 32%) are treated, while 64 (or 68%) remain unresolved or in dispute.)

As you well know, according to Article 33 of the UN Charter, “[t]he parties to any dispute, the continuance of which is likely to endanger the maintenance of international peace and security, shall, first of all, seek a solution by negotiation, enquiry, mediation, conciliation, arbitration, judicial settlement, resort to regional agencies or arrangements, or other peaceful means of their own choice.”

Given the rights and duties enumerated under Article 33, and following the successful precedent set by your predecessor in facilitating the 2016 agreement between Gabon and Equatorial Guinea to have their maritime boundary dispute referred to the ICJ, I humbly request that you consider appointing a Special Advisor and publicly expressing your readiness to launch a UN mediation process aimed at resolving similar disputes in the Eastern Mediterranean. Your personal engagement and imprimatur are of vital importance to help the affected countries succeed in resolving their boundary disputes peacefully and in accordance with international law.

It should be noted, too, that while even the active role of the United States is insufficient, on its own, to bring about the resolution of all boundary disputes in the Eastern

Mediterranean, its continuing engagement is almost certainly necessary. Given that US mediation has been particularly helpful for limiting tensions in one of the region's most dangerous relationships – the one between Israel and Lebanon – its backing of UN efforts on other fronts looks a lot like a prerequisite for success.

The aforementioned steps would help instill new momentum in the process – and confidence in the parties – at a critical time, when recent discoveries of oil and gas deposits in maritime zones of overlapping jurisdictions demand major investment decisions by foreign investors and the national oil companies of the countries involved. Offshore seabed hydrocarbon activities in recent years have resulted in a series of important discoveries, including two massive finds: *Leviathan*, discovered off the Israeli coast in December 2010 and reported to hold 22 trillion cubic feet (Tcf) in gas reserves; and *Zohr*, discovered off Egypt in August 2015 and reported to contain 30 Tcf. Both discoveries, which are proceeding to the development stage, lie in close general proximity to the boundaries delimited by the aforementioned bilateral treaties.

Once a Special Advisor has been appointed by you, it would be even more helpful if you could facilitate a multi-party ministerial meeting on the boundary disputes in the Eastern Mediterranean at UN Headquarters in New York, at the UN Office in Geneva, or at some other convenient and appropriate location. Preparatory meetings by technical teams representing the countries involved, assisted by neutral experts in maritime delimitation, could be organized before such a high-level meeting, a process that could then be replicated for additional sessions going forward.

Excellency,

Your active leadership in securing mutually acceptable solutions for the maritime boundary disputes in the Eastern

Mediterranean would not only help strengthen respect for the international rule of law, but also would contribute to lasting peace and improved neighborly relations in the region. In addition, the peaceful resolution of these disputes would likewise constitute a source of inspiration for countries facing similar challenges around the world.

Thank you for your consideration.

Very truly yours,



Roudi Baroudi
Energy Economist

**Exclusive: Russia to pump
dirty oil back from Belarus –
sources**



Some 5 million tonnes of oil were contaminated in April with organic chloride and the dirty crude is now stuck in pipelines in Belarus and further West – in Poland, Germany, Ukraine, Slovakia, Hungary and the Czech Republic.

The sources said it could take months to fully resolve the crisis.

The crude is blocking the 1 million barrels-per-day Druzhba pipeline, shut since late April, and the evacuation of dirty barrels is complicated by the fact that no firm wants to pay for or refine them as organic chloride can damage refining equipment.

Four industry sources familiar with the latest Russian plan told Reuters Moscow would reverse the Druzhba pipeline and pump back around 1 million tonnes of contaminated oil from Belarus, thus cleaning up the link all the way through to Belarus's border with Poland.

Another 1 million tonnes stuck in Poland and Germany though, will be left there to be dealt with by those countries, the sources said.

“The Russians are open to agreeing to take back the polluted oil from the Belarus section which has not come to Poland yet, but there is no agreement on compensation,” one industry source said.

The source attended a meeting in Warsaw on Thursday between Russian, Belarussian and European companies to discuss how to resume oil exports via Druzhba, the loss of which is costing Russia \$80 million per day.

Three other people present at the Warsaw talks or briefed on what was discussed also said the plan was for Russia to take back the oil from the Belarus section.

“This is a bit under 1 million tonnes. They plan to take it back to Russia,” one of four sources said.

The pipeline supplies Poland and Germany via its northern leg and goes to Ukraine, Hungary, Slovakia and the Czech Republic in the south. The routes split at the Mozyr refinery in Belarus.

ROAD MAP

On Friday, Russia and Belarus signed a protocol agreeing to clean the pipelines by pumping back the oil to Russia but the protocol gave no specific volume to be pumped.

Russia has not yet determined the amount it will pay in compensation, Economy Minister Maxim Oreshkin told reporters, adding Transneft had the resources to deal with the issue.

Russia’s energy ministry and Transneft, the Russian state pipeline operator, did not reply to requests for comment.

Belarus state energy company Belneftekhim, which manages the country’s two refineries, declined to comment. Polish oil refiners PKN Orlen and Lotos also didn’t respond to a request for comment.

Polish pipeline operator PERN said on Friday it had dealt with over 30% of oil contamination in its system but it may take several months to completely clean the network.

Germany's economy ministry and oil industry association said on Friday that ongoing Druzhba problems did not pose a threat to the security of oil product supply and that there were no plans to release oil from strategic stocks.

It remained unclear where Russia is planning to send the contaminated crude after pumping it back, the four sources said. It previously sent contaminated oil via the Baltic port of Ust-Luga via a pipeline, while a small volume was sent by rail to the Black Sea port of Novorossiisk where it got mixed with clean oil.

Russia is also exporting oil via other ports in the Baltics, as well as in the south and east of the country. These supplies were not affected by the contamination.

So far, Russia has managed to remove around 2 million tonnes, using rail, storage tanks and ships, restoring, at least partially, clean flows to the Ust-Luga port and to Slovakia.

Russia's dirty oil crisis is worse than almost anyone predicted



Bloomberg / London

After any normal voyage the tanker would quickly deliver its 700,000 barrels of Russian crude into a refinery for processing into gasoline, diesel and other petroleum products. But the Mendeleev Prospect is in limbo, the victim of Russia's unprecedented contaminated crude crisis that's been spreading chaos through the European oil market for a month.

The length and scope of the crisis has given it a political dimension. On Thursday, Polish Prime Minister Mateusz Morawiecki decided to get personally involved in finding a solution, but said talks were "very difficult, very tough."

Back in April, unusually high levels of the chemicals known as organic chlorides were discovered in the Russian crude flowing through the giant Druzhba pipeline, built in the 1960s to carry crude from the USSR to allied countries in Eastern Europe.

The chlorides can severely damage oil refineries and on April 24 Russia's state pipeline operator, Transneft PJSC, halted shipments. Moscow pledged to resolve the issue right away; four weeks later, the flow of Russian oil into Europe is little more than a trickle.

Druzhba usually supplies up to 1.5mn barrels a day of Russia's

benchmark Urals blend into central Europe – more than the total production of Opec member Libya. The crude goes directly to refineries through two separate pipeline spurs and via tankers from the Ust-Luga export terminal in the Baltic.

Despite repeated pledges from Russian authorities to resume shipments in days, the crisis is proving bigger, longer and costlier than almost anyone expected and a solution could still be weeks away.

In Germany, one of the continent's biggest refineries – the Leuna plant owned by French oil giant Total SA – has shut down. Poland has been forced to tap the emergency petroleum reserves. And as far west as Rotterdam, Europe's petroleum hub, some refineries have been forced to run at lower rates.

The technical challenge of handling millions of barrels of tainted crude has been compounded by fights over who will pay the cost of the crisis. An emergency summit in Warsaw on Thursday made some progress, but didn't nail down a solution.

"So far the resumption of flows along Druzhba has been progressing very slowly," Vienna-based consultant JBC Energy GmbH told clients. "Negotiations and payment arrangements here could well take some time, delaying the full resumption of flows."

Then there's mystery of what's happening to Russia's crude oil while Druzhba is shut. According to official data, output has barely dropped over the last four weeks, falling from 11.23mn barrels a day in April to 11.15mn barrels a day so far in May. But the country is shipping roughly 1mn barrels a day less than normal, about a tenth of its output.

That's led oil traders to puzzle on how Russia's been able to maintain production, asking whether Russia has the millions of barrels of empty storage needed to hoard the crude that hasn't flowed through Druzhba for four weeks.

Spokesmen for Transneft and Rosneft declined to comment.

As the weeks pass, the price tag soars. Speaking privately, more than a dozen oil traders and refining executives in London, Geneva and Moscow said the cost may reach \$1bn. The estimates are based on the volume of oil contaminated and the

\$10-to-\$20-a-barrel discounts refiners are asking to take the tainted barrels. The traders and executives spoke on condition of anonymity to avoid upsetting their commercial relationship with Russia. "The Druzhba pipeline issue should cap Russian supply for the time being," said Ed Morse, head of commodities research at Citigroup in New York.

Although Moscow has yet to give its own estimate, Western traders also believe the problem will prove larger and take longer to resolve than many predict. Russian oil officials talk about 20mn barrels contaminated, but oil traders and refining executives believe the real number may be closer to 40mn.

The larger the amount, the bigger the problem: the polluted crude will need to be blended very slowly to bring the chloride levels down to acceptable levels, on a 1-dirty-to-10-clean barrels ratio most likely. That process may well take months, not weeks. So far, refiners in Poland have experimented with blending and struggled.

"The Russian crude can only be blended down over time, a process requiring hundreds of millions of barrels of clean crude," said Amrita Sen, chief oil analyst at consultant Energy Aspects in London. The second problem lies with who's responsible for the crisis – and the cost of clearing it up. The pipelines are run by Transneft, headed by Nikolay Tokarev, a former KGB pal of Vladimir Putin. Much of the oil is supplied by state oil company Rosneft PSJC, run by the Kremlin power-broker Igor Sechin.

Russian oil officials have pinpointed the contamination to a small, privately-owned terminal in the Samara region, about 1,000 kilometres (620 miles) from Moscow. Who owned the oil and why it was polluted remain a mystery.

The contamination with organic chloride, which is very unusual, comes at a time when the global oil market is already short of supply of crude of similar quality to Urals.

The combined impact of US sanctions on Iran and Venezuela, Opec+ production cuts, and lower-than-expected output in Mexico has reduced worldwide shipments of denser crude with

high sulphur content. Premiums in the physical market for medium-heavy crude have surged to multi-year highs as a result. "This is a significant unplanned outage that is having spill-over effects," said Harry Tchilinguirian, head commodity strategist at BNP Paribas. "What you end up with is a further reduction in the availability of medium quality crude oil."

Russian officials and European oil executives are groping toward a solution. After Thursday's Warsaw meeting, Transneft said uncontaminated barrels can flow into Poland by June 10 if interested parties implement a restart plan yesterday. But PERN SA, its Polish counterpart, said claims for compensation from oil refiners must first be acknowledged if the deadline is to be met.

To be sure, the situation is slowly improving. Russia is resorting to Soviet-style mobilisation, marshalling thousands of rail cars to move crude from the north of the country into a terminal in the Black Sea where the polluted crude could be slowly blended with clean flows.

The southern branch of the Druzhba pipeline, which goes into the Czech Republic and Hungary has started to pump, although at rates about half their normal level of 300,000 barrels a day. Clean crude arrived on Thursday in Slovakia and it's expected to reach Hungary by Monday.

Ust-Luga is also receiving clean oil, but shipments remain patchy. The big problem is, however, the key northern branch of Druzhba going into Belarus, Poland and Germany, which remains closed, depriving the region of at least 700,000 barrels a day. So far, every plan to re-start the pipeline has failed. As an alternative, refiners in the region are getting oil via the Baltic ports of Gdansk in Poland or Rostock in Germany.

Until a proper solution is found, a crisis that started in a remote village in southern Russia will keep reverberating through the continent's oil market – and the costs will rise and rise.

Big Oil is looking to conduct a big power experiment in your house



Big Oil wants to put a box in your hall closet that works like a human brain, can cut the lights, stop the refrigerator and will know how you move about in the privacy of your home better than you do.

Sounds worrying? It's one of the ideas the world's largest oil companies are experimenting with to survive in a low-carbon world.

Companies like Lightsource BP, in which British oil major BP Plc holds a stake, are trialing smart systems in people's homes that will do everything from generating solar power,

storing it and managing consumption. Much like Spotify Technology SA gives users instant access to thousands of cool playlists without having to spend years building up their own collection, Lightsource BP wants to make sophisticated renewable power systems available to average people.

They are figuring out how to go big on electricity as demand surges with rising prosperity around the world while investors and activists put them under immense pressure to adopt green policies. However, concerns over climate mean the power industry of the future will be nothing like the past as focus shifts to efficiency and carbon-free electricity.

Todd Hill, an electrical engineer from Melbourne, lives in a four-bedroom house in a hilly town south of London with his wife and two daughters, represents what Lightsource BP thinks is possible.

After he moved into a new home in 2013, he installed 23 photovoltaic panels on the roof capable of generating 5.3 kilowatts of power, about enough for his family of four. Lightsource BP added a battery to store the electricity the panels generate, an inverter which can be programmed to dispatch the stored electrons when needed, and a diverter to send surplus power to heat the water in his tank.

Hill controls this kit, which he estimates cost about \$13,000, with an app that gives real time information. So he could be camel-riding in Mongolia and the technology will still know the best time to generate power in his England home and charge the battery. At night, when the solar panels are effectively useless, the battery can juice-up his electric car.

“The main aim is to use everything we generate within the home,” Hill, wearing a dark green shirt with a windmill on it, said over a cup of tea in his kitchen. “So anything that goes from the PV to the grid is a wasted opportunity that we can save money on.”

For anyone with less interest in tinkering with their day-to-

day power use, Lightsource BP is offering to take control. The company specializes in efficiently generating Hill's own electricity so he doesn't produce any surplus which can only be sold to the grid at discounted prices. And ensures he doesn't end up buying more expensive fossil fuel-generated power.

When the customer moves around the house, the artificial intelligence box learns patterns, like when a person works from home, or is on vacation, with the purpose of closely matching electricity generation with in-house consumption. It can do things like predict the next day's weather, detect individual appliances, collect data on how often and at what times they are used, and help produce a greater share of the power at home.

Hill is one of 200 people who tested a smart energy-management system for Electricity de France SA local unit and Lightsource BP, in whose lab he also works.

Most utilities potentially have a problem on their hands as more people generate their own electricity. In the U.K. about 27% of power is now produced outside of the big and hulking power stations of the past, according to National Grid Plc data. That could jump to as high as 46% by 2030.

A spokesman for EDF's unit EDF Energy said it aims to provide a range of "energy services," to customers to keep them on board. Its trial with Lightsource BP ended in 2018 but it's running other experiments, such as offering discounted batteries to homeowners with solar panels.

"Once you get the customer on your side, it's like an Apple ecosystem; those companies will make it really hard to switch providers," said Elchin Mammadov, a utilities analyst at Bloomberg Intelligence. "It's trying to make this offering more sticky and then you can up-sell other services."

A profitable business for the companies could be managing the power grid itself. A network of homes and businesses with

solar panels and batteries could potentially replace some of the giant power stations in the futures. Companies with access to these homes could help balance supply and demand for a fee.

“There’s going to be more and more electricity demand,” said Kareen Boutonnat, Lightsource BP’s chief operating officer. “You can manage that by effectively putting in a lot more generation and having generation on reserve and spending billions on having to upgrade the grid, or you can do that by having this type of smart system.”

More of the biggest oil companies are considering these smart power systems. Royal Dutch Shell Plc, which bought a big U.K. utility in 2017 and wants to be the world’s biggest electricity supplier, will also offer a range of smart home energy devices. It expects its power unit to eventually generate returns of as much as 10%, close to what it gets from producing and selling oil. French major Total SA has also acquired a large company, Direct Energie, and is examining different business models.

They also have tough competition from existing utilities and Silicon Valley tech companies, who are also trying to find the future’s winning power formula. Mammadov said these experimental businesses will probably be loss-making for the foreseeable future.

Meanwhile, at Hill’s home, they are looking forward to summer. That’s when he generates so much extra power that his family can take hot showers without having to turn the boiler on.

How to Live Better and Stop Destroying the Planet



May 24, 2019 ANA PAULA AGUIAR , ODIRILWE SELOMANE, PERNILLA MALMER

A recent United Nations-backed report highlighted the scale of destruction humans are inflicting on the natural world. To reverse these trends, humanity must transform its economic models and food system, treat the world's oceans far better, and think carefully about the best ways to tackle climate change.

STOCKHOLM – Earlier this month, a bleak global assessment of the shocking state of life on Earth made headlines worldwide. According to the report by the Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services (IPBES), about 12% of all known animal and plant species are now threatened with extinction. Worse still, humanity is destroying entire habitats, and with them the web of life that supports societies and economies. Unsurprisingly, the findings were greeted with despair.

As IPBES scientific contributors and co-authors of the report,

we face this news every day. It is impossible not to react emotionally to the scale of destruction humans are inflicting on the natural world. Yet the report also goes to great lengths – although this has been less widely reported – to identify ways to reverse this alarming trend. To succeed, however, humans need to undertake four major transformations.

First, we must substantially change our legal, economic, and technological systems. It is true, as the report emphasizes, that protected areas and legislation have prevented the extinction of many species, such as the panda. And further conservation steps are clearly needed. But humans need to make far more fundamental changes.

The IPBES report therefore explores numerous possible economic development paths for the world to 2050, and identifies ways to protect nature while increasing human prosperity. The measures it proposes are not the usual suspects, such as reducing deforestation or curtailing the exploitation of species; instead, they address the causes of these problems.

Here, the report concludes that sustaining Earth's living systems requires us to redefine what a good quality of life means. Societies need to get away from the idea that a good and meaningful life is possible only through ever-increasing material consumption. This is clearly absurd. Wellbeing has been stagnating in many developed countries, even as consumption continues to increase.

Solutions could instead build upon new social and political narratives showing that happiness goes hand in hand with lowering total consumption and cutting waste. Reducing gender and wealth inequalities also improves a society's wellbeing, as Nordic countries have shown. And, as IPBES recognizes, indigenous and local knowledge can reveal other ways of managing ecosystems sustainably.

Undertaking such shifts will not be easy. The world must

urgently adopt a new economic paradigm that goes beyond a singular focus on GDP. This is beginning to happen. New Zealand, for example, has announced its first “wellbeing budget,” while China is continuing to develop measures of “green GDP.”

Second, the world must transform its food system. The way we currently produce and consume food is a major cause of ecological destruction. Yet feeding a growing global population a healthy diet without damaging the Earth is not only possible, but will also improve people’s quality of life. The IPBES report highlights several sustainable agricultural practices, such as integrated pest and nutrient management, organic farming, soil and water conservation, and measures to improve animal welfare.

One of the IPBES report’s development paths to 2050 is in line with the findings of the separate EAT-Lancet Commission report on sustainable food systems. That report, released earlier this year, concluded that the world could feed ten billion people a healthy diet – with less meat and dairy products, and more nuts and vegetables – without needing to use more land.

But these actions on their own will not be enough. One-third of all food produced never makes it to the plate. We support calls for food waste to be slashed by 50% by 2030, and, encouragingly, countries including France, Germany, and Italy have taken steps to prevent supermarkets from discarding unsold food.

Third, we must treat the world’s oceans far better. Industrial fishing now extends to 55% of the world’s ocean area, and just 3% is free from human pressure. The ocean is increasingly used as a dumping ground for sewage, plastic, excess fertilizers, and other toxic pollutants. But research shows that managing the oceans sustainably can increase fish stocks and economic value. And the UN aims to reach agreement next year on new

international regulations to protect the oceans.

Finally, the world must think carefully about the best ways to tackle climate change. The timber and agriculture industries – in particular the production of soy, palm oil, and beef – are causing rapid deforestation, with devastating consequences for the stability of the Amazon rainforest, the world's climate, and many species. But attempts to combat global warming through large-scale planting of bioenergy crops, along with reforestation and afforestation, could greatly harm biodiversity and fragile ecosystems. Well-planned measures, on the other hand, could enhance biodiversity, improve soil quality, and capture and store carbon dioxide.

Protecting the living world calls for systemic changes that go beyond narrowly focused policies on biodiversity or climate. Fighting poverty and inequality are essential parts of the solution, too. But these transformative steps will happen only if we start treating the situation like the crisis it is, as Swedish climate activist and student Greta Thunberg has urged.

In recent weeks, both the UK and Irish parliaments have declared climate and nature emergencies, and we urge other countries to do the same. In 2020, a “superyear” for international environmental policy – with major summits on biodiversity, climate, and the oceans – the UN should mark its 75th anniversary by declaring an emergency for the planet to accelerate action to ensure long-term sustainability.

<https://www.project-syndicate.org/commentary/united-nations-report-nature-destruction-four-changes-by-ana-paula-aguiar-et-al-2019-05>

Focus on EU's 2019-2024 strategic agenda



As the European Parliament election approaches, Europe is abuzz with speculation over who will lead the main European Union institutions for the next five years. Among the positions up for grabs are those currently held by European Commission President Jean-Claude Juncker; European Council President Donald Tusk; Federica Mogherini, the EU High Representative for Foreign Affairs and Security Policy; and European Central Bank President Mario Draghi. Personnel issues are hardly trivial. In politics, personality matters, and it has often played a pivotal role in determining the EU's trajectory. Still, the leadership name game should not be the main focus.

Far more important is the debate over the EU's 2019-2024 strategic agenda. After an informal summit in Sibiu, Romania, earlier this month, European leaders will return to this issue in earnest later in June. And for all of the attention paid to the EU's institutions, it is EU heads of state who will craft the bloc's agenda. In other words, member-state governments, operating through the European Council, will be the actors to watch after the election results are in. When the European Economic Community, the precursor to the EU, was established in 1957, its primary objective was to secure the peace between France and Germany, starting with a customs union for industrial goods (for the Germans) and a common agricultural policy (for the French). This arrangement anchored the

European agenda for decades.

Then, when the Soviet Union and its empire collapsed, countries that had been trapped behind the Iron Curtain wanted to “return to Europe.” In the years since, the EU has undergone a massive expansion to include them. Its goal has been twofold: to aid the newer member states in their post-communist economic and political development, and to maintain continental peace and stability by bringing Central and Eastern Europe into the fold of EU institutions. The immediate post-Cold War period was a time of self-confidence and optimism for the EU. Gradually, its strategic mission expanded beyond merely keeping the peace, to projecting the European model of shared sovereignty and integration abroad. The EU model, it was said, would lead to more stable governance for the entire world. Over the past decade, however, the EU’s effort to project its model outward has collapsed. Following the 2008 financial crash, the euro crisis, and recurrent migration imbroglios, the EU has turned inward. At the same time, the EU’s immediate neighbourhood has transformed from a circle of potential friends and partners into a ring of fire. Now, rather than trying to export stability, Europe’s strategic priority is to protect itself from the wider world. In trying to breathe new life into the EU after years of inward-looking crisis management, French President Emmanuel Macron has pushed for “a Europe that protects.” Following Macron’s call to arms, published by Project Syndicate this March, the EU leadership in Brussels has taken up that mantra and bundled various initiatives under the theme of protecting Europe in an age of global tumult. Such protection is undoubtedly necessary. Migration pressures, the constant threat of terrorism, and escalating economic disputes all demand a stronger policy response.

And while addressing some of these issues has proved controversial and difficult, the larger protection agenda is being carried out. Yet, looking ahead, it is clear that the

current measures won't be enough. The EU finds itself in a world dominated by great-power rivalries, Chinese assertiveness, and revisionist Russian belligerence. Worse, in confronting these threats, it can no longer count on the United States as an unconditional friend and ally. The EU now must choose between securing its own place on the global stage and becoming a playground for other powers. This is a strategic decision of the first order – all other policy choices will follow from it. If Europe ignores or checks out of the dramas roiling the world from Amritsar in India to Agadir in Morocco, it will fail to ensure peace in its neighbourhood and betray its promise to its citizens to protect them from external danger. For the EU to uphold its original mission – peace and stability at home – it must become a global player.

The choice, then, is clear. Europe's strategic mission in the coming years must be to secure its position on the world stage, and all matters of policy and personnel should be settled in a way that advances that objective. Obviously, a strong European Council president, working closely with a strong high representative, will be essential. Both will need to mobilise the resources and talents of all EU member states to prevent the EU's constituent parts from being pulled in different directions by global forces. If the EU's member states embrace this mission, Europe will be positioned to act as a global player for years to come. Otherwise, they – and the EU as a whole – will find themselves on a merry-go-round over which they have no control. – Project Syndicate zCarl Bildt is a former prime minister and foreign minister of Sweden.

Salvini Vows to Change EU Tax Rules as Aide Turns Fire on PM



Italian Deputy Premier Matteo Salvini vowed to change European Union rules in order to push through his promise of a 15% flat tax for everyone, as his top aide turned against Prime Minister Giuseppe Conte.

Salvini and his rightist League kicked off the week by opening fire on several fronts ahead of the European Parliament vote May 26, as tensions within the populist government escalated over immigration and other issues.

Salvini pledged at a pan-European rally of 12 nationalist parties in his hometown Milan on Saturday to push through the flat tax, a measure likely to raise concerns both in Brussels and among investors on how the government will draft the 2020

budget against the backdrop of a sluggish economy.

"The only way to create jobs is to reduce taxes, so we need to change some European rules and some limits imposed by Brussels," Salvini told La7 television on Monday.

Changing deficit and debt caps would mean altering EU treaties, which in turn requires unanimity between member states and possibly referendums in some countries. Salvini has nonetheless continued to call those limits into question.

The deputy premier stayed on topic throughout the day on Monday, saying in a video interview on Facebook that tax cuts should initially be financed with a higher deficit, and that rules imposed by Europe are flawed.

Quarreling between the League and coalition partner the Five Star Movement, including over Salvini's threat last week to challenge the EU limits, has spooked financial markets, widening the yield spread between Italian and German government bonds last week.

Now, Giancarlo Giorgetti, who's also cabinet secretary, is adding fuel to the fire, voicing long-running frustration among League lieutenants about Five Star, which picked Conte a year ago.

"Conte is no longer impartial," Giorgetti told newspaper La Stampa. The premier tries to act as a mediator between the League and Five Star but "when the clash becomes tough and he has to take a side, he goes for the stand of those who put him forward," Giorgetti said. "The situation cannot last for ever."

Questioning the premier's neutrality "is not a serious allegation, it's a very serious one," Conte said later Monday in comments to reporters. The premier also acknowledged that clashes between the two parties in the coalition are becoming increasingly heated.

Conte, a former law professor, was plucked from obscurity by

Salvini and fellow Deputy Premier Luigi Di Maio of Five Star last year. While never a Five Star member himself, Conte was loosely affiliated with the movement in the past and Di Maio once named him as a possible candidate to head the Public Administration Ministry.

Salvini backed Giorgetti's remarks. "If everyone keeps their word and keeps their promises, we keep going for five years," Salvini said in the La7 interview. "The problem is the 'no's' on autonomy, the flat tax, unblocking construction projects."

Unprecedented Tensions

Both Salvini and Di Maio have repeatedly insisted the government won't collapse despite unprecedented tensions before the European elections. The partners have squabbled about everything from security and immigration to more powers for regions in the League's northern stronghold.

Senior officials in both the League and Five Star have said the infighting is mainly due to the election campaign, although uncertainty remains on the coalition's future.

Salvini, who has campaigned on an "Italy First" platform, also took a swipe at Chinese telecommunications giant Huawei Technologies Co. "China is surely not a democracy," he said on La7, adding that "sensitive data, what there is on our phones, the medical data of Italians, of our current accounts, must be Italian."

The impact of the Trump administration's threats to choke Huawei reverberated across the global supply chain on Monday, hitting some of the biggest component-makers. Alphabet Inc.'s Google cut off the supply of hardware and some software services to Huawei, a person familiar with the matter said.

Salvini, who's also interior minister and has insisted Italian ports remain closed to humanitarian ships carrying rescued migrants, protested on La7 Sunday night as he watched migrants disembark at a Sicilian port.

“Someone must have given the order,” Salvini said, as Five Star officials insisted no minister of that party had granted access to the ports. “That person has to account for his action.”

Salvini said he’ll propose giving his ministry powers over migrant vessels in territorial waters at a cabinet meeting he said will take place later Monday. Conte’s office said no time has been set for the meeting.

– *With assistance by Nikos Chrysoloras, Dan Liefgreen, and Marco Bertacche*

(Updates with Salvini on Facebook in sixth paragraph.)

Opec signals intention to keep limits on oil supply all year amid Russia doubts



Bloomberg Moscow/London

Key producers in Opec signalled their intention to keep oil supplies constrained for the rest of the year, while pledging to prevent any genuine shortages.

It was less clear how far Russia, their main partner in the wider Opec+ producers' coalition, shared that view. While most nations at a meeting in Saudi Arabia on Sunday supported extending production cuts to the end of 2019, Russian Energy Minister Alexander Novak talked about potentially relaxing the curbs and wanted to wait and see what happens in the next month.

"We need to stay the course, and do that for the weeks and months to come," Saudi Energy Minister Khalid al-Falih told reporters after the meeting in Jeddah.

The contrasting messages underscore the uncertainty in the global market. If ministers don't agree to an extension next month, the production cuts that ended the worst oil-industry downturn in a generation will expire. Yet their decision is clouded by the impact of US sanctions on Iran and the risk to demand from President Donald Trump's trade war with China.

In a market where the preponderance of risks are on the supply side – with Venezuela and Libya also facing disruptions – what Saudi Arabia chooses to do with its ample spare production capacity may be a crucial factor in the coming months.

On Sunday, al-Falih gave a strong indication that prices were the priority and he wasn't about to open the taps.

Benchmark Brent crude rose as much as 1.7% yesterday, and traded up 0.5% at \$72.58 a barrel as of 10.40am in London.

Continuing the Opec+ accord into the second half wouldn't rule out a production increase. Saudi Arabia has been cutting far deeper than required under the deal and could boost output by about 500,000 barrels a day – equivalent to almost half Iran's exports – without breaching its limit.

Yet al-Falih said production in May and June will be held at the current level of 9.8mn barrels a day. Regardless of what Opec+ decides next month, output in July won't exceed the

kingdom's limit in the deal of 10.3mn barrels a day, he said. The meeting of the Joint Ministerial Monitoring Committee, which oversees the deal between the Organization of Petroleum Exporting Countries and its allies, was generally supportive of an extension, and nobody rejected the idea, Nigerian Oil Minister Emmanuel Ibe Kachikwu said in an interview.

Even so, the committee didn't make a formal recommendation to prolong the supply curbs, concluding instead that further monitoring of the market was necessary, with a focus on managing inventories and keeping supply and demand in balance. The fate of the group's production cuts, which amounted to about 2% of global supply last month, will be decided on June 25 to 26 in Vienna, just days before they expire. That's a volatile situation for the oil market, giving traders very little time to adjust if there's an unexpected shift in policy.

Russia's Novak affirmed his commitment to the historic alliance, saying the production cuts have "proved very efficient." But before and after the meeting he also spoke of the possibility of relaxing the cuts. "We need to promptly react to the situation now and potential developments in the second half," Novak said before the meeting. "If the demand grows, if a deficit is there, we are ready to consider a relaxation of the current parameters, partial output recovery."

Extending the deal is also on the table, and Russia would comply with any agreed output limit in the second half of 2019, Novak said.