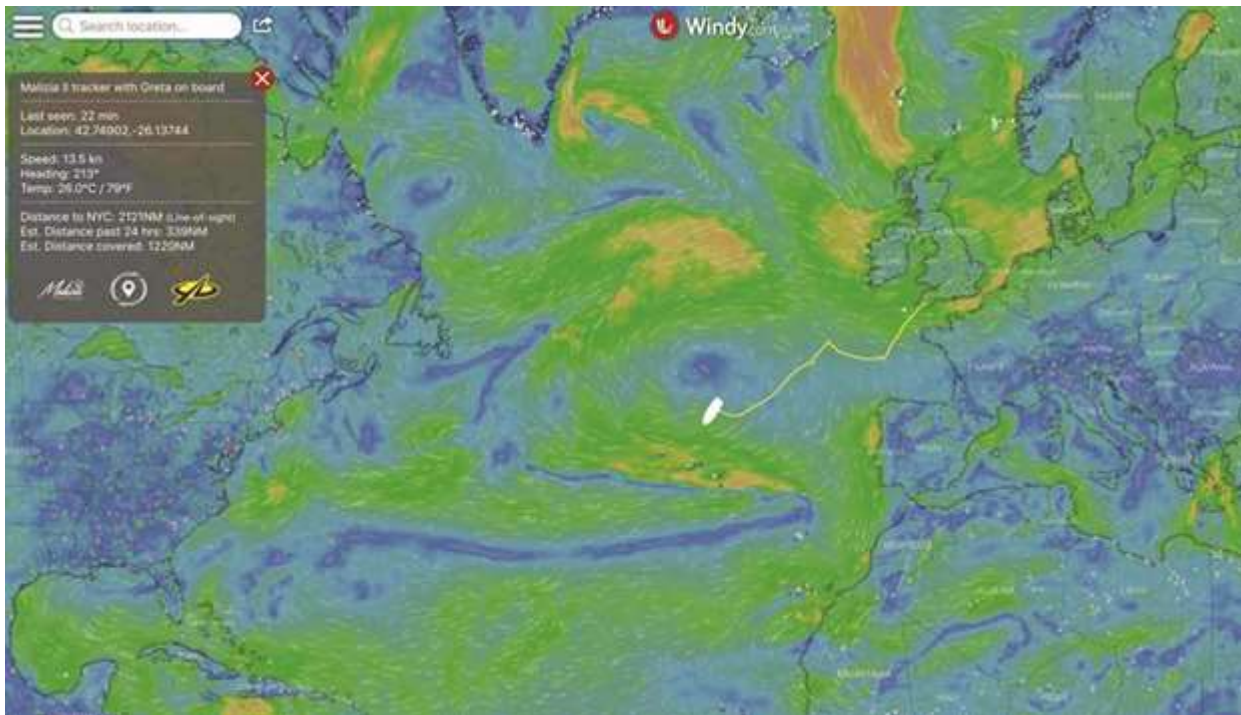


Planetary thinking



By Erik Berglof London

The Swedish climate truthsayer Greta Thunberg has set sail for the United States in a zero-emissions racing yacht to generate waves in a different part of the world – including at next month's United Nations Climate Action Summit in New York. She will arrive in America at a time of growing transatlantic awareness of the threat posed by climate change. But whether shifts in public opinion will translate into concrete action remains to be seen.

Taking sustainability seriously means that we can no longer ignore our planetary boundaries. We need to start designing tools and policies to make all aspects of society more sustainable, before the costs of doing so become so large as to impoverish us. This has increasingly become a task not just for academics who specialise in the field, but for scholars and researchers generally. Sustainability should now be the lens through which we approach all policy-related empirical questions. We need challenge-driven, mission-oriented research, and that calls for a broad multidisciplinary effort. To that end, Michael Grubb of the University of Cambridge,

along with two co-authors, made a monumental contribution with his 2014 book *Planetary Economics: Energy, Climate Change, and the Three Domains of Sustainable Development*. Grubb marshals a broad range of tools from within the economics discipline to chart the way to a sustainable society. That framework will need to be broadened beyond economics, but it provides a useful starting point.

The “three domains” in the book’s subtitle concern human behaviour, and how it can be influenced through regulation, traditional market-based pricing, and innovation. Transforming a system requires action in all three areas. For example, better regulation can change human behaviour in a way that reduces prices and spurs innovation, in turn yielding even better regulation and lower costs.

Unfortunately, these three traditional domains within economics have each evolved separately, developing their own languages, evidence, policy recommendations, professional societies, and journals. The goal of a “planetary economics” is to integrate the domains within a single community, whose sole objective is to build a civilisation that can exist within Earth’s boundaries.

This is already happening on the margins. Evolutionary and institutional economists are talking to organisational and behavioural economists about how individual social and economic choices make up complex systems over time. Complexity economists like W Brian Arthur have been studying such questions for decades. And, in parallel, “Solow Residual” economists have drawn on all three domains to make sense of unexplained factors in economic growth.

But this multidisciplinary intermingling is not happening nearly fast enough. What we need is a new field of planetary social science to unite different perspectives, conceptual frameworks, and analytical tools – from political science, sociology, anthropology, and psychology. Just as we cannot ignore the climate science, nor can we ignore the geopolitical and security challenges that will confront a warming planet. Beyond the participation of individual consumers, private

corporations, and civil society, building a sustainable global economy will require active state intervention. Governments urgently must adjust regulatory frameworks, reset market incentives, and expand the hard and soft infrastructure needed for innovation to thrive. Moreover, policymakers should be prepared to take calculated risks, and to recalibrate policies based on feedback.

The sub-discipline that has perhaps come closest to integrating other disciplines, including medicine and environmental science, is public health. In *Survival: One Health, One Planet, One Future*, George R Lueddeke, the chair of the One Health Education Task Force, shows how public health can be incorporated into a wide range of fields to address individual, population, and ecosystem health.

Another crucial area, of course, is education. In 2015, the international community adopted the UN's 2030 Agenda and the 17 Sustainable Development Goals, one of which (SDG 4) regards high-quality universal education as a key to building "peaceful, just, and inclusive societies." Yet progress toward this goal, particularly in developing countries, is being hampered by inequality, poverty, financial shortfalls, extremism, and armed conflict.

In advanced economies, education systems need to prepare students for a world that is undergoing fundamental social, economic, and technological change. Young people today will need the skills not just to cope with the ongoing transformation, but to lead it. That means education policy, too, must become challenge-driven. In practical terms, every university should consider creating a compulsory course on systems thinking and cross-disciplinary approaches.

Meanwhile, public- and private-sector organisations around the world are being asked to integrate the SDGs into their daily operations. In *Survival*, 17 organisations, ranging from the US Centres for Disease Control and Prevention to the World Wildlife Fund, tell Lueddeke how they are adopting a more multidisciplinary approach. But, in general, it is clear that many – if not most – countries have yet to consider the costs

of implementing the SDGs fully. Without their active participation, success is unlikely.

In fact, most national finance ministries have not fully bought into the 2030 Agenda. In advocating sustainability, we must not create new vulnerabilities in the form of over-indebtedness. Recent experience shows that financial crises can rapidly undermine economic and political achievements, sometimes reversing decades of development or jeopardising future economic growth and stability.

As Greta Thunberg steps onto new shores, those in power should consider their responsibility to all generations. We urgently need to create the conditions for the emergence of a planetary social science that can inform our policy decisions. Ultimately, the planet will carry on. But whether humanity survives will depend on the leadership shown today, and on the systems of governance and scholarship that we build for the future. There is nothing like the prospect of extinction to focus the mind. – Project Syndicate

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Britain and Italy are now the terrible twins of Europe



By Martin Kettle London

For most of the time since 1945, the politics and government of Britain and Italy have seemed like polar opposites. True, both were important European powers. True too, each had a place among the world's major economies. Even now, Britain and Italy will be among the select group of economically powerful nations whose leaders will gather in the Second Empire splendour of Biarritz's Hotel du Palais this weekend for the latest G7 summit.

In the past, that was where the similarities began to ebb away. In politics, Britain was famously stable while Italy was infamously not. British governments were domestically strong, while Italian governments were weak and short-lived.

In Britain, leftwing politics was rooted in industrial unionism, while Italy possessed the largest, most modern-minded and most alluring communist party in the West. When Britain looked in the mirror it saw the embodiment of probity and practicality, while Italy was all too often synonymous with crime and corruption. While Britain maintained its autonomy by refusing to join the eurozone, Italy enthusiastically embraced its upper mid-table place in the EU and its membership of the single currency was shamelessly

engineered.

Today, the political comparison is marked not by divergence but by an increasing convergence. Politically, Britain is becoming more like Italy. Like Italy, Britain is an increasingly hard to govern country that makes less and less effort to address its underlying economic, social and political problems. Instead, like Italy, Britain appears to be drifting steadily to the right under skilful populist leaders whom the political institutions are proving unable to control. The collapse of Italy's populist coalition this week is not, at first sight, an event with many British resonances. Both parties in the coalition are recent creations, a far cry from a Conservative party that traces its history deep into the 19th century. The rightwing Lega is the latest iteration of the old anti-migrant Lega Nord, which dated from only 1991, while the Five Star Movement is more recent still, a root-and-branch anti-establishment party. Yet the division that brought down the coalition and led to prime minister Giuseppe Conte's resignation on Tuesday has real echoes of the battles in the Conservative party.

Like Theresa May, Conte was forced to quit because the Lega, under Matteo Salvini, has created a position in which it thinks it can win an election. That is precisely the belief that fires Boris Johnson. Salvini's mix of anti-immigrant braggadocio, confrontational hostility to the EU in general, and to Germany in particular, plus his readiness to borrow and increase the deficit, and his intention, if elected, to slash taxes, has its reflections in Priti Patel's potentially brutal migration controls, Johnson's sabre-rattling approach to May's withdrawal agreement and the UK government's election-mode fiscal liberality.

None of this is to pretend that Britain and Italy are marching to exactly the same political drum. But if Angela Merkel, who hosted Johnson's first European trip as prime minister on Wednesday, were to be asked privately to nominate her most unwelcome EU leader colleagues, it is a fair bet that Johnson and Salvini would come top of her current list, above even

Hungary's Viktor Orbán.

The Italian and British rightwing populist leaders, egged on by Donald Trump's administration in Washington, represent a deliberate challenge to traditional politics in general and to the EU's future in particular. Until recently, the visit of a British prime minister to the German chancellor was a ritual reaffirmation of commitment to stability. Not any more, and not on Wednesday. It is an alarming thought – though it should not be overplayed either – that Wednesday's was almost certainly the most destabilising Anglo-German summit since Munich in 1938.

To add the words "except Italy" to every generalisation about Europe would become tiresome, historian AJP Taylor once said. From now on, he added, the words should therefore be taken as read. Many of us grew up looking at Italy's place in Europe in that way. Cooler and more stylish than us, certainly, but also more corrupt and more unshakeably right wing, Italy seemed to follow its own unique and inimitable route through European modernity.

For much of the postwar era, this way of looking at Italy made some sense. Compared with centralised France and Britain, Italy was a devolved state. Power lay in the cities and the regions, where Rome's writ did not run. Compared with Germany and Scandinavia, Italy was economically protectionist, inefficient and institutionally rotten. While the citizens of most countries in Europe liked to think that they obeyed the laws, paid their taxes and provided for their poor, many Italians picked and chose which rules to follow, joked about paying their taxes and were often overtly hostile to the impoverished south of the country, as Salvini is today to African and Arab migrants.

For a while, it was possible to believe that, if there were convergence between the two, it would be Italy that managed to change, adapting itself to the liberal democratic capitalist habits of the EU. But that hasn't happened. Italy's exceptionalism is now, if anything, more pronounced. Under Johnson, Britain is accelerating in a similar direction of its

own. Since the fall of the Syriza government in Greece, Italy and Brexit Britain together pose the most direct challenges to the EU's legal, budgetary and human rights underpinnings. For the avoidance of doubt, precise parallels between Italy and Britain, or Salvini and Johnson, should not be pushed too far. There remain many profound differences between the two national conjunctures. But their rightward trajectories, their preoccupation with winning votes on the right not the centre, and their mastery of the black arts of political campaigning in the digital age all come from the same soil. Those who have argued for many years for Britain to become more like Germany or Sweden have to wake up to what is happening. Italy and Britain, an improbable political duo if ever there was one, have become the terrible twins of Europe. – Guardian News and Media

Greece mulling defense deal extension with US



Athens is looking to extend the US-Greece defense agreement, also known as the Souda Agreement, by a year when US Secretary of State Mike Pompeo visits in October or November, it emerged after Wednesday's meeting between Prime Minister Kyriakos Mitsotakis and US House Appropriations Committee Chairwoman Nita Lowey at the Maximos Mansion in Athens.

Meanwhile, the prospect of a meeting next month between Mitsotakis and US President Donald Trump was also reportedly discussed.

Lowey also met with Foreign Minister Nikos Dendias and his deputy Antonis Diamataris for talks that reportedly focused on areas of the US-Greece Strategic Dialogue and efforts to promote common interests in the Eastern Mediterranean region.

In a tweet, US Ambassador to Greece Geoffrey Pyatt, who was at both meetings, said the discussion with Dendias focused on "progress in all areas of the US-Greece Strategic Dialogue and the commitment of both our governments to do even more to promote common interests in the EastMed and strengthen Greece as regional pillar of stability."

As for the meeting between Mitsotakis and Trump, this could reportedly take place on the sidelines of the United Nations General Assembly in New York in late September. Pyatt reportedly said that the timing is right for such a meeting.

Meanwhile, Mitsotakis begins his tour of European capitals on Friday, starting in Paris for talks with French President Emmanuel Macron.

The prime minister is expected to tout the momentum of New Democracy's election victory, which has been reflected in the positive reaction of markets, as well as the notion that his government is a pillar of stability in the European south.

The bottom line is to restore confidence in Greece and to convey the message that it is no longer a "problematic" country in Europe, but one that is ready to undertake and support EU initiatives – among them Macron's green agenda and the strengthening of European defense cooperation.

By getting this message across, Mitsotakis aims to pave the way for discussions on the primary surpluses Greece has agreed to achieve.

He is expected to provide reassurances that the targets for 2019 and 2020 will be met, but also that his reform package to stimulate the Greek economy will allow for a new outlook as of 2021.

Turkish navtex sparks fresh tension with Cyprus



Tensions are expected to heighten again in the Eastern Mediterranean after Turkey issued another navigational telex (Navtex) Wednesday reserving areas within Cyprus' exclusive economic zone (EEZ) for renewed exploratory activities by its Barbaros seismic vessel.

Ankara reserved an area spanning blocks 2, 9 and 13 of Cyprus' EEZ which it claims belong to the Turkish Cypriots in the occupied north of the island.

Cyprus has already licensed blocks 2 and 9 to South Korean energy company Kogas and Italy's Eni while France's Total was recently also given rights to these blocks.

Moreover, Paris has signaled its willingness to send frigates to the region to safeguard its interests. As yet no license has been awarded for Block 13.

Cyprus reacted to Ankara's move by issuing its own navtex calling on the Barbaros to refrain from illegal activity within its territorial waters.

Meanwhile, Turkish F-16 jets conducted two overflights

Wednesday over the Aegean islet of Agathonisi and one over Farmakonisi.

US Exim Bank seeks vote on \$5bn loan to Mozambique LNG project



The US Export-Import (Exim) Bank said on Thursday its board intends to vote on a \$5-billion direct loan for the development of a liquefied natural gas (LNG) project in Mozambique, the bank's biggest export financing deal in years.

The government export lender said it has notified the US Congress of the transaction, which will be ready for a final board vote in 35 days.

If approved, the transaction would support US exports of goods and services for the engineering, procurement and construction of the onshore LNG plant and related facilities on the Afungi Peninsula in northern Mozambique.

Exim said over the five-year construction period the financing could support 16 400 American jobs among suppliers in Texas, Pennsylvania, Georgia, New York, Tennessee, Florida and the District of Columbia.

It estimated interest and fee income from the transaction of more than \$600-million from a consortium led by Occidental Petroleum Corp.'s recently acquired Anadarko Petroleum Co.

US exports to supply the project, however, face competition from financing offered by foreign export credit agencies.

The project would be the single biggest financing deal since Exim's full lending powers were restored in May with the confirmation of three new board members. That ended a drought of nearly four years in which the bank could not approve loans and guarantees of more than \$10-million due to a protracted fight in Congress over its future.

The bank, seen by some conservatives as providing taxpayer-backed "corporate welfare" and "crony capitalism," was unable to finance major infrastructure projects like the Mozambique LNG plant and commercial aircraft built by Boeing. It needs Congress to renew its charter before September 30 to keep operating.

US President **Donald Trump**'s administration views the bank as a tool to boost US exports in an increasingly competitive trade environment.

"This critical project is not only a win for American companies and workers, supporting over 10 000 jobs in the US, but also for the people of Mozambique as well," US Commerce Secretary **Wilbur Ross** said in a statement.

Exim said the Mozambique LNG project would begin to develop the Rovuma Basin, one of the world's most extensive untapped reserves of natural gas, with a major impact on Mozambique's economy.

Tesla in talks with LG Chem on battery supply in China



Reuters Seoul/Shanghai

US electric vehicle maker Tesla Inc is in advanced talks with South Korea's LG Chem Ltd to source batteries for vehicles to be made in its Shanghai plant, a person familiar with the matter said.

The move represents a push by Tesla to diversify sources of the key component for its electric vehicles from its exclusive supplier, Japan's Panasonic Corp.

Another source said LG Chem agreed to supply batteries for Tesla's China plant, without elaborating.

LG Chem is expanding its China battery capacities and modifying some manufacturing facilities in Nanjing to make a different type of auto battery, according to the first source. The company currently mainly makes pouch-type auto batteries, but as a major battery maker, it is not hard for it to revamp facilities to make cylindrical auto batteries that Tesla uses, the source and separate people familiar with the matter added. The source said Tesla is still likely to use Panasonic batteries in the initial phase of production and source from other suppliers including local names in the future. A third person said Tesla may source batteries from CATL later, as the Chinese battery maker does not have much experience in making cylindrical batteries used by Tesla.

All of the sources declined to be identified because of the confidentiality of the deal.

Tesla did not immediately respond to Reuters' request for comment.

LG Chem and CATL declined to comment. Tesla chief executive Elon Musk said in November the US company would manufacture all its battery modules and packs at the Shanghai factory, which will make Model 3 and Model Y cars, and planned to diversify its sources.

LG Chem has signed battery material supply agreements with China's Huayou and Tianqi, as the South Korean battery maker is trying to expand its foothold in China.

It said it would set up a joint venture with a unit of China's Geely on batteries.

China has scrapped its so-called "white list" of recommended battery suppliers, which did not include foreign firms when it was first published in 2015 to spur a domestic battery sector, a decision foreign companies said could open up the world's biggest market for electric vehicle batteries.

Panasonic has said it could supply batteries to Tesla's Chinese plant either from Japan, the United States or China

The real obstacle to climate action



By Kemal Dervis And Sebastian Strauss/Washington, DC

Climate change is probably the biggest threat facing humanity today. According to the United Nations Intergovernmental Panel on Climate Change, the world must cut its carbon dioxide emissions to net zero by 2050 in order to prevent global warming of 1.5°C, or likely more, above pre-industrial levels in this century. The challenge calls for drastic immediate action, because the infrastructure investments the world makes today will determine the carbon intensity of its growth path for decades.

Yet despite widespread recognition of the size and urgency of the climate challenge, emissions continue to increase, land is “under growing human pressure,” and the Amazon has never been more threatened.

Much of the early climate debate revolved around whether the

world should take drastic immediate action to mitigate global warming, or adopt a more gradual approach. The gradualists argued with some success that drastic immediate measures would impose heavy short-term economic costs.

But three recent developments have altered the course of the debate. First, the various feedback loops triggered by global warming now threaten to cause greater and more imminent damage than previously thought.

Second, the cost of clean energy has declined much faster than previously assumed. According to the International Renewable Energy Agency, renewable-energy sources are already the cheapest power option in much of the world, with solar and wind technologies leading the way. Moreover, the cost of "greening" could fall even faster in the future through learning-by-doing. This is also likely to be the case in urban design, transportation, agriculture, and forest protection, all of which need to undergo a green transition.

Finally, the immediate negative externalities of the world's current high-carbon growth model, such as air pollution, are now better recognised as adding to the short-term cost of climate change. Reducing them would therefore partially offset the upfront cost of mitigation.

These shifts greatly strengthen the case for pursuing much faster and bolder forms of mitigation. As the 2014 New Climate Economy Report concluded, there need not be a tradeoff between growth and forceful climate action, even in the short term.

So, why is more not being done? For starters, although the green transition may have a small net aggregate cost, it is certain to generate losers (as well as winners). And as is often the case with such transitions (for example with trade liberalisation), the gains will be spread across large parts of the population, while the losses will be more concentrated on specific groups, making them more visible and politically disruptive.

When advocating policies that result in aggregate welfare gains, economists often fail to give enough consideration to their likely distributional impact. Instead, they often

implicitly assume that the winners will compensate the losers. But if such compensation does not actually occur, the losers are left worse off and can often block change, as the “yellow vest” protesters (gilets jaunes) have done since 2018, when the French government proposed a new climate-friendly fuel tax.

The de facto coalition that is currently resisting climate action consists of the vested interests that own carbon-intensive assets (such as oil companies) and the mostly lower-income groups that would be short-term losers in a rapid transition. Compensating the latter and isolating the former is politically essential.

Unfortunately, it is not clear whether, say, the young German urbanites who voted for the Greens in the European Parliament elections this year would happily compensate the older auto workers – let alone Polish coal miners – who would suffer in a rapid transition. And complicating matters further, the groups at risk of short-term losses from green policies are often bearing the brunt of digitisation and globalisation, too.

Another hurdle to bold action is that climate protection constitutes an “additive” global public good, because there is only one atmosphere and the emissions of any one country add to global greenhouse-gas concentrations as much as those of any other country. This causes the free-rider problem of “carbon leakage.” Europe may well reduce its emissions in line with (or even beyond) the aims of the 2015 Paris climate agreement, but if India and China’s emissions keep increasing – or if Brazil allows the Amazon to collapse – those efforts will have been futile.

Clearly, the whole world would benefit from a co-operative solution. But without a binding international agreement or a supranational authority that can impose global green policies, few countries have an incentive to engage in sufficient mitigation efforts – leaving everyone worse off.

One possible measure to deter free riding is a carbon border tax, as recently proposed by the incoming president of the European Commission, Ursula von der Leyen. Governments that

tax carbon could levy a border tax equal to the implicit subsidy given to their “dirty” exports by governments who do not have such a tax. This would effectively impose a kind of shadow carbon price on free riders, prompting them to produce fewer carbon-intensive goods.

Provided that it is non-discriminatory, such border pricing would enhance global welfare and be compatible with World Trade Organisation rules. But calculating the appropriate tax would be very difficult in practice. It would, for example, necessitate calculating the tax equivalent of regulatory ceilings. The measure may also invite countries like the United States to retaliate with distortive measures, making it somewhat perilous. Moreover, the tax would likely have regressive distributional consequences, hurting poor countries the most. A better strategy, then, is to increase green investment in developing countries substantially, with multilateral development banks catalysing private financing in addition to their own funds.

Distributional issues – not aggregate costs – are the real obstacle to the ambitious policies needed to avert possibly catastrophic climate change. Similar challenges, at both the national and international level, also affect the transitions entailed by the so-called Fourth Industrial Revolution.

Neo-nationalist populists are already feeding on the fears created by disruptive change. Ambitious carbonisation could further fan these flames if it is not accompanied by social policies that effectively ease the process. Progressives everywhere must therefore unite in support not only of a rapid green transition, but of one that is politically feasible and desirable for the vast majority of citizens – even in the short run. – Project Syndicate

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Trafigura to take stake in Frontline in \$675mn deal



Frontline has agreed to buy 10 Suezmax oil tankers from Trafigura in a cash and share deal worth up to \$675mn which will make the Geneva-based trading firm the group's second biggest shareholder.

Under the terms of the deal Trafigura will take an 8.5% stake in Frontline valued at \$128mn, and will receive a cash payment of between \$538mn and \$547mn, the companies said yesterday.

The agreement will allow Frontline, which is controlled by Norwegian-born billionaire John Fredriksen, to boost its future dividends, the Oslo-listed tanker operator said.

Frontline and Trafigura, together with dry bulk shipping firm Golden Ocean, announced a marine fuel partnership earlier this month ahead of a shake-up in regulation that will enforce

cleaner fuels for ships.

Frontline has agreed to time-charter all the 10 vessels, which were built this year and fitted with exhaust gas cleaning systems known as scrubbers that will help them meet the upcoming marine fuels rules, until the deal closes.

"The price is reasonable, and they are (fitted) with scrubbers so... I think it's cheap," Frontline chief executive Robert Hvide Macleod told Reuters. "The market is about to firm considerably so I think the timing is good."

Crude tanker freight rates have been under pressure for the best part of 2019 but are expected to improve later this year, lifted in part by the upcoming fuel regulations.

Frontline also has an option to buy a further four vessels and agreed to charter five of the vessels back to Trafigura for three years at a daily base rate of \$28,400 with a 50% profit share above the base rate, the trading firm said in a statement.

At a price of about \$66.5mn to \$67.4mn per vessel based on Thursday's Frontline closing price, the deal is in line with current market values, according to an Arctic Securities research note.

"We see the timing of adding high-end tankers with scrubbers at current prices as very compelling, just as the market starts to move," the brokerage added. "(We) see today's announcement as an attractive deal ahead of the market recovery."

A newbuild Suezmax tanker currently costs above \$60mn to order, not including costs for scrubbers, and delivery won't take place until 2021, Macleod said.

"What is interesting about the Suezmax market is that there has been very little delivered over the last year and there is virtually nothing on the order book. So the fleet profile is looking healthy," he added.

Frontline's shares rose following the announcement, trading 5.3% higher at 0926 GMT.

Trafigura sees "significant upside potential in our equity investment in Frontline, a company with vast commercial scale

and capabilities with whom we already enjoy a close working relationship”, its Global Head of Wet Freight Rasmus Bach Nielsen said in the statement. The cash boost will also help the trading firm reduce its debt profile as the end of its financial year on September 30 approaches.

Trafigura needs to maintain a healthy level of equity as a guarantee against debt with its bank lenders.

The firm has struggled with keeping a cap on its debt but managed to hit its targeted ratio of below 1.0 times for adjusted debt to equity during its 2018 financial year.

However, this ratio rose in the first half of 2019 to 1.16 times. Its total debt was at nearly \$33bn as of March 31 this year, out of which \$24bn is current debt.

Frontline’s fleet will consist of 75 vessels after the transaction, including newbuilds.

Fredriksen currently holds around 46.6% of the Oslo-listed tanker operator’s shares and will see his stake diluted to around 42% by the deal, according to a Reuters calculation.

Copper hits 2-year lows as metals demand outlook dims



(Repeats Monday's column with no changes to text. The opinions expressed here are those of the author, a columnist for Reuters.)

* Fund positioning on CME copper: tmsnrt.rs/2Myafvs

* LME Index vs China PMI: tmsnrt.rs/2YnPVnD

* Global Vehicle Production: tmsnrt.rs/2YqBKy7

By Andy Home

LONDON, Aug 5 (Reuters) – If you believe that “Doctor Copper” is a sensitive gauge of the health of the global economy, then you should be worried.

London Metal Exchange (LME) copper fell through the year's low of \$5,725 per tonne on Friday and hit a 26-month low of \$5,640 early on Monday.

The trigger for the slump was the latest escalation of the trade stand-off between the United States and China, President Trump announcing the imposition of more tariffs on Chinese

goods effective the beginning of next month.

Copper has been used as a proxy for trading the on-off trade talks for some time and funds had amassed a significant short position on the CME copper contract even before Friday's break-down.

However, what's troubling Doctor Copper and just about every other LME-traded base metal, with the single exception of nickel, is the accumulating evidence of a global manufacturing downturn.

Quite evidently, an escalation of trade tensions between the world's two biggest economies is not going to help an already fragile industrial economy.

THE TRUMP TRADE AND THE BIG SHORT

Funds have for many months been expressing their views on the likely success of the trade talks via the CME copper contract.

When a positive outcome looked possible around the end of the first quarter, fund positioning switched to net long. But since then bears have amassed short positions as the prospects of a breakthrough have receded.

The latest Commitments of Traders Report shows money managers holding a net short position of 40,372 contracts.

Outright short positions totalled 86,841 contracts. That's less than the record 101,593 contracts accumulated at the start of June but the latest report only covers positioning as of last Tuesday. The big short has almost certainly got bigger still, given the price action towards the end of last week.

Long positioning has been largely unchanged since the unwind of previous exuberance in April and May.

THE GLOBAL RECESSION TRADE

It's not just copper that is being punished by speculators. LME aluminium, zinc, lead and tin are all now trading below year-start levels.

Only nickel is defying this broader trend, with investors keeping faith with nickel's bull narrative of a lift in demand from the electric vehicle battery sector. It is the only LME metal still showing a net speculative long position, according to LME broker Marex Spectron.

What's depressing the rest of the LME base metals complex is the deterioration in global manufacturing activity as shown by falling purchasing managers indices (PMI) the world over.

"For the first time in recent history we now have the majority of global manufacturing PMIs in contraction," said BMO Capital Markets. ("Metals Brief", Aug. 2, 2019).

The metal markets are particularly sensitive to the health of China's massive industrial economy, which is struggling, according to both the official and Caixin PMIs. Both indices edged up in July but both, critically, remained below the expansion-contraction threshold.

Other key metals economies such as South Korea, Japan and Taiwan are also suffering.

Manufacturing activity in the euro zone goes from bad to worse, contracting at the fastest pace in July since late 2012.

The United States remains a rare bright spot, but even here activity is slowing fast. The Institute for Supply Management's July index fell to 51.2 in July, the weakest growth rate in nearly three years.

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AUTOMOTIVE PAIN

The automotive sector is a particular source of metals demand weakness.

World motor vehicle production fell last year for the first time since the financial crisis, according to the International Organization of Motor Vehicle Manufacturers.

Car markets are being hit both by the broader cyclical downturn and the structural challenge of transitioning from the internal combustion engine to electric vehicles.

This double whammy is particularly acute in China, the world's largest car market and the one that is rolling out electric vehicles faster than anyone else.

Chinese vehicle sales have fallen year-on-year for 12 straight months, with expectations that car demand will slide some 5% this year after a 2.8% fall last year to 28.1 million units – the first decline since the 1990s.

Transport is an important end-use sector for metals such as aluminium, so look no further to understand why China's exports of semi-manufactured aluminium products are booming even as national aluminium output flat-lines.

Exports of "semis" rose 8% in the first half of 2019 despite the proliferation of trade barriers and anti-dumping duties on Chinese products.

BACK TO SUPPLY

A breakthrough in U.S.-China trade talks could lift some of the manufacturing gloom but the prospects appear to be dimming after the most recent escalation of threatened tariffs by U.S. President Donald Trump.

Beijing, meanwhile, is working hard just to maintain economic

stability by using targeted stimulus.

Hopes for a shock-and-awe metals-intensive stimulus package such as that seen in 2009-2010 and again in 2015-2016 have faded.

Beijing has made it quite clear it doesn't want to repeat the mistakes of the past. The current stimulus pulse is largely bypassing the residential construction sector, another key end-use area for many base metals. Infrastructure spend, meanwhile, also appears to be bypassing the copper- and aluminium-intensive power grid.

With China's manufacturing sector treading water and other countries' activity rapidly decelerating, there is no reason for heavyweight fund managers to allocate money to the base metals sector, again with the possible exception of nickel.

Analysts such as those at BMO are looking for some improvement after the seasonal slowdown months of northern hemisphere summer and as destocking through the manufacturing chain comes to an end.

But, until there is "evidence of improvement (...) supply cuts may offer more hope for price upside" in the base metals complex.

That says as much as anything else about the state of global metals demand.

Editing by Louise Heavens

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Gas companies ask Pakistan govt to rescue network



Pakistan's gas network has raised the 'red flag' owing to high-pressure levels, compelling the authorities to drastically scale down supplies, particularly from domestic gas fields amid lower electricity demand and better hydropower generation. Pakistan State Oil (PSO), the country's premier importer of liquefied natural gas and largest company by revenue, and Sui Northern Gas Pipelines Limited (SNGPL) have sought intervention of the energy ministry and the Prime Minister Office to resolve an issue involving safety of the gas network, financial costs to the exchequer and international penalties. In two simultaneous communications to the federal government, the PSO and SNGPL have complained about lower than committed gas quantities by the power sector and warned of serious consequences. As an interim arrangement, the government has reduced supply from some of the domestic gas fields to avert accidents caused by high pressures, a senior official at the petroleum division said. He said that in its latest letter to the federal government on the weekend,

the SNGPL had complained that since July 14, average RLNG (re-gasified liquefied natural gas) consumption by the power sector remained 714mmcfcd (mn cubic feet per day) against a confirmed demand of 828mmcfcd as conveyed by the power division.

This reduced consumption has resulted in an increase in system pack which has reached 4,925mmcfcd. It remained so on August 2 as well. The company said RLNG off-take by the power sector had dropped further to 550mmcfcd on August 1 and in case of continued reduced consumption, further packing would be a catastrophe for its system and might jeopardise the entire RLNG supply chain, adding that the "current level of system pack has resulted in increase in line pressures and red flags have risen across the network". A petroleum division official said the supply from Hassan, Koonj and Sui fields and even from the SSGCL (Sui Southern Gas Company Limited) swap system had been curtailed by a total of 400mmcfcd to ensure safety. The supply from Hassan and Koonj fields has been completely stopped, while that from the Sui field curtailed by 75% to just 45mmcfcd against its normal flow of 180mmcfcd, he said. After including RLNG swap from the SSGCL, the total supply to the SNGPL network has been reduced by more than 30pc to 945mmcfcd from over 1340mmcfcd. "It is, therefore, imperative that RLNG-based power plants should be given priority while allocating dispatch requirements for sustainability of the RLNG supply chain," the SNGPL said. On the other hand, the PSO complained that it was being exposed to financial and credibility risks. "It is rather unfortunate that instead of improvement in re-gasification rates, the situation is getting out of control now in terms of delays in cargo unloading, resulting in huge expected demurrages on all incoming cargoes," the PSO said. As of now, Engro's terminal-1 is running at around 540mmcfcd and will further go down against the planned 600mmcfcd or maybe more to recuperate the earlier lost capacity. As a result of continuous default by the SNGPL against committed off takes, the PSO said, the cargo berthing

would incur heavy demurrages as the expected discharge rate owing to lesser available ullage with the Engro terminal will be maintained at one-fourth of the normal discharge rate. "The delays in cargo unloading will have cascading effect on future deliveries as well and now all cargos in the month of August 2019 are expected to incur heavy demurrages which are estimated to be well above \$150,000 as of now if the regasification rates are not increased immediately," it added. On top of that, the PSO warned that if immediate actions were not taken, the cargo arriving on August 15-16 "might attract 'take or pay' charges as well, which means the whole cargo value of around \$30mn will be to the buyer's (Pakistan) account without even receiving the product". The PSO said the situation warranted immediate remedial measures to be taken in coordination with the power division and SNGPL as the situation had developed due to lesser off take by the power sector. In the meantime, the SNGPL should take all possible measures on a war footing, including diversion of gas to other sectors or reduction or temporary suspension of local supplies, so that huge cost implications could be averted. Zargham Eshaq Khan, the power division's joint secretary, declined to comment on the issue, but another official said the power division had committed 850mmcf/d gas for August and mostly utilised up to 90% of those quantities during peak hours. He said oil and gas companies should also have the flexibility to absorb 10%- 15% gap in case of fluctuation in the electricity demand. The problem, he added, was that the petroleum division had erroneously been assuming 1,130mmcf/d allocation for the power sector against a firm written demand for 850mmcf/d. Moreover, the official said, power plants were hired on the basis of economic order. The hydropower generation is now touching 7,500-8,000MW, which was the cheapest and its utilisation could not be reduced because of rainy spell. The SNGPL said the weather forecast suggested rains over four major consumption hubs on the SNGPL network and it would result in continued less consumption of RLNG by the power sector.