

Oil Market Report

Highlights

12 May 2022

- World oil demand growth is forecast to slow to 1.9 mb/d in 2Q22 from 4.4 mb/d in 1Q22 and is now projected to ease to 490 kb/d on average in the second half of the year on a more tempered economic expansion and higher prices. As summer driving escalates and jet fuel continues to recover, world oil demand is set to rise by 3.6 mb/d from April to August. For 2022, demand is expected to increase by 1.8 mb/d on average to 99.4 mb/d.
- Russia shut in nearly 1 mb/d in April, driving down world oil supply by 710 kb/d to 98.1 mb/d. Over time, steadily rising volumes from Middle East OPEC+ and the US along with a slowdown in demand growth is expected to fend off an acute supply deficit amid a worsening Russian supply disruption. Excluding Russia, output from the rest of the world is set to rise by 3.1 mb/d from May through December.
- Global refinery margins have surged to extraordinarily high levels due to depleted product inventories and constrained refinery activity. Throughputs in April fell 1.4 mb/d to 78 mb/d, the lowest since May 2021, largely driven by China. Between now and August, runs are forecast to ramp up by 4.7 mb/d, but the tightness in product markets is expected to continue based on our current oil demand outlook.
- Global observed oil inventories declined by a further 45 mb during March and are now a total 1.2 billion barrels lower since June 2020. In the OECD, the release of 24.7 mb of government stocks during March halted the precipitous decline in industry inventories. OECD industry stocks rose by 3 mb to 2 626 mb, but remained 299 mb below the five-year average. Preliminary data for April show OECD industry inventories increased by 5.3 mb.
- Crude prices fell in April to trade in a narrow \$10/bbl range above \$100/bbl. ICE Brent last traded around \$105/bbl and WTI \$102/bbl. Rapid early-May advances on the sixth round of EU sanctions for Russia drove renewed price tensions. High crude prices and exceptional product cracks are supporting strong inflation trends.

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Pressure mounting

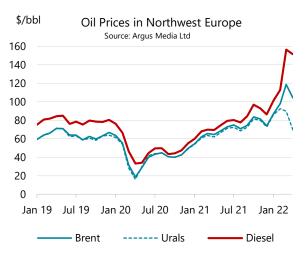
Russia's isolation following its invasion of Ukraine is deepening as the EU and G7 contemplate tougher sanctions that include a full phase out of oil imports from the country. If agreed, the new embargoes would accelerate the reorientation of trade flows that is already underway and will force Russian oil companies to shut in more wells. Even so, steadily rising output elsewhere, coupled with slower demand growth, especially in China, is expected to fend off an acute supply deficit in the near term. Amid the widening supply and demand uncertainties, oil market volatility remains rife, but prices are trading in a lower and narrower \$10/bbl range above \$100/bbl. Brent last traded at \$105/bbl and WTI \$102/bbl.

Despite mounting international pressure and falling oil production, Russian exports have so far held up by and large. But now major trading houses are winding down deals ahead of a 15 May deadline to halt all transactions with state-controlled Rosneft, Gazprom Neft and Transneft.

Following a supply decline of nearly 1 mb/d in April, losses could expand to around 3 mb/d during the second half of the year.

Global refinery maintenance and capacity constraints are exacerbating dislocations caused by Russia's war in Ukraine. During April, crude and product markets saw diverging trends. While crude prices trended lower overall, diesel and gasoline cracks surged to record levels, pulling up refinery margins and end-user prices.

Limited spare capacity in the global refining system, together with reduced



exports of Russian fuel oil, diesel and naphtha have aggravated the tightness in product markets, which have now seen seven consecutive quarters of stock draws. While a first tranche of SPR releases halted the precipitous decline in OECD industry stocks in March, crude made up the majority of it and product stocks have continued to fall. Notably, middle distillate reserves reached their lowest levels since April 2008.

Soaring pump prices and slowing economic growth are expected to significantly curb the demand recovery through the remainder of the year and into 2023. Moreover, extended lockdowns across China where the government struggles to contain the spread of Covid-19 are driving a significant slowdown in the world's second largest oil consumer. For the year as a whole, global oil demand is forecast to average 99.4 mb/d in 2022, up 1.8 mb/d y-o-y.

As restrictions in China ease, summer driving picks up and jet fuel continues to recover, world oil demand is set to rise by 3.6 mb/d from an April low through August. If refiners cannot keep pace, product markets and consumers could come under additional strain. The IEA's recent *10-Point Plan to Cut Oil Use* outlines measures that can be taken immediately to cut consumption and ease the pain caused by high oil prices.

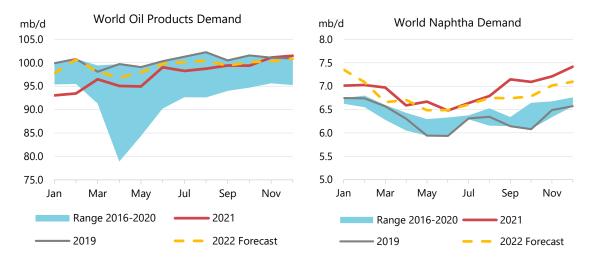
Demand

Overview

World oil demand growth slows

Escalating lockdowns across China, as the government struggles to contain the spread of Covid-19 are driving a dramatic slowdown in the world's second-largest and fastest-growing oil consumer. Simultaneously, price expectations for the rest of the year are increasing as Russia's invasion of Ukraine shows little sign of easing. However, the impact of these twin crises for oil demand was moderated in 1Q22 by the continued strong recovery in oil use in Western countries. Most of these issues were already factored into last month's *Report*, which itself assumed a 240 kb/d demand reduction, but we have now revised down growth projections for this year by a further 70 kb/d, to 1.8 mb/d. Global demand is forecast to average 99.4 mb/d in 2022.

Most of this year's expected growth took place in $1Q_{22}$ (+4.4 mb/d). The comparative absence of public health restrictions in advanced economies allowed demand for major fuels to rebound (gasoline +1.4 mb/d, gasoil +1.2 mb/d and jet/kerosene +840 kb/d) while the continuing expansion of petrochemical capacity helped LPG use to soar by 970 kb/d. In 4Q22, however, we project that demand will be 230 kb/d lower than in 4Q21 as the economy slows and the impacts of higher prices bite.



This loss of momentum during the rest of 2022 is fuelled by the significant Chinese lockdowns, sanctions on Russia that began in late-1Q22 and persistently higher oil prices for the second half of this year. The higher demand baseline established in 2H21 highlights the slowdown. The ICE Brent futures prices used as an input to our demand estimates are now expected to average almost \$104/bbl for 2022 (as of 2 May 2022) – up from a little over \$102/bbl in early April. In isolation, a 1.5% price rise like this would theoretically lessen demand by up to 50 kb/d. Our updated outlook for GDP is largely unchanged, despite higher growth expectations for some commodity producers and for Brazil, where recent indicators have been more positive.

In China, mobility restrictions stifled commerce and left air traffic close to its April 2020 nadir. Chinese demand for 2Q22 has now been revised down by a total of 890 kb/d across the April and May *Reports*. The crisis is having substantial knock-on effects for neighbouring economies and on shipping networks globally. The *Kiel Trade Indicator*, a measure of global container shipping, shows that, despite stabilising in April, volumes stalled in early-2022, after near-continuous growth since April 2020. Bunker demand in Hong Kong and Singapore fell in February and March.

	Global Demand by Region (thousand barrels per day)													
		A. A.	Demand	per day)	Annual Ch	ng (kb/d)	Annual	Chg (%)						
	2019	2020	2021	2022	2021	2022	2021	2022						
Africa	4 244	3 812	4 036	4 154	225	118	5.9	2.9						
Americas	31 843	28 187	30 303	30 917	2 116	614	7.5	2.0						
Asia/Pacific	35 846	34 073	36 092	36 921	2 019	828	5.9	2.3						
Europe	15 093	13 142	13 817	14 265	676	447	5.1	3.2						
FSU	4 723	4 497	4 778	4 465	281	- 313	6.3	-6.6						
Middle East	8 710	8 206	8 522	8 629	317	107	3.9	1.3						
World	100 459	91 916	97 550	99 351	5 634	1 802	6.1	1.8						
OECD	47 778	42 128	44 764	45 928	2 637	1 164	6.3	2.6						
Non-OECD	52 681	49 788	52 785	53 423	2 997	638	6.0	1.2						

The crises in China and Russia are also slowing the global recovery in jet fuel demand. In March, Russia's international isolation began to weigh on its domestic economy. The sharpest impact so far has come on jet/kerosene, with consumption falling by 13% month-on-month (m-o-m), despite a huge increase in military requirements, as commercial flight numbers collapsed by 31%. In China, air traffic has fallen even more spectacularly, from almost 11 000 daily flights in February, to just over 3 000 each day in April. While traffic within these countries and to their neighbours will be slow to recover, passenger and flight numbers continue to rise gradually elsewhere. We forecast steady gains for global jet/kerosene demand throughout 2022, at 820 kb/d year-on-year (y-o-y). Total global jet/kerosene use should reach 6 mb/d, but will nevertheless lag 1.9 mb/d behind 2019 levels, highlighting the potential for further growth beyond our forecast period.

We expect that a large part of the demand response to high prices will come in the form of curtailed personal mobility and business activity. This will trim transport fuel demand as the year goes on. Additionally, we already observe changing behaviour from some industrial consumers. Notably, the costs for gasoil and natural gas in power generation have returned close to parity in Europe (including emissions trading costs). This implies less switching from gas to oil in power generation as some users who moved away from gas are incentivised to return. Provisional German data for March indicate that demand for non-road gasoil was about 100 kb/d lower than previously forecast, with Europe as a whole unwinding a substantial share of the maximum 250-300 kb/d additional demand in power generation. Furthermore, very high distillate prices provide a powerful disincentive to the widespread use of back-up generators in Asian countries, where their utilisation has recently been prevalent. Similarly, petrochemical operators have been hit with higher naphtha prices and weaker margins. This has triggered rate cuts and feedstock shifts on an even greater scale than forecast in April's Report. Globally, naphtha demand shrank by 310 kb/d y-o-y in March (the first such fall since April 2020), compared with an average y-o-y increase of 540 kb/d during the previous six months. In contrast, LPG climbed by 820 kb/d, with flexible steam-cracker operators increasing their intake.

Notwithstanding this month's downward revision, there could be more pessimistic scenarios going forward if China's fight against Covid further undermines demand growth, Russia's

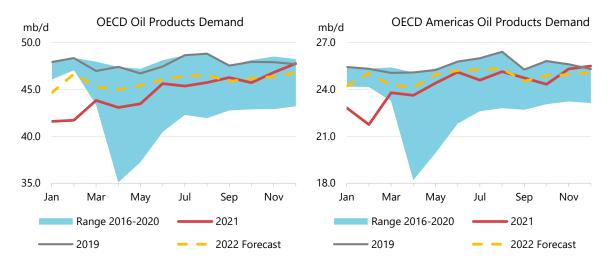
confrontation with Europe expands or economic growth in advanced economies slows more than anticipated. Hence, the greatest risks to this forecast are likely to the downside, with reduced pressure on stocks and refineries.

	Global Demand by Product (tho us and barrels per day)												
		ſ	Demand		Annual Ch	ng (kb/d)	Annual Chg (%)						
	2019	2020	2021	2022	2021	2022	2021	2022					
LPG & Ethane	13 251	13 314	13 907	14 488	593	581	4.5	4.2					
Naphtha	6 347	6 380	6 921	6 814	540	- 107	8.5	-1.5					
Motor Gasoline	26 717	23 633	25 672	26 053	2 039	381	8.6	1.5					
Jet Fuel & Kerosene	7 930	4 664	5 217	6 039	553	822	11.9	15.8					
Gas/Diesel Oil	28 317	26 514	27 809	28 025	1 295	216	4.9	0.8					
Residual Fuel Oil	6 148	5 721	6 073	6 141	352	68	6.1	1.1					
Other Products	11 749	11 690	11 952	11 791	262	- 161	2.2	-1.3					
Total Products	100 459	91 916	97 550	99 351	5 634	1 802	6.1	1.8					

OECD

Overall 1Q22 OECD oil demand is almost unchanged from last month's *Report*, at 45.5 mb/d. A 3.1 mb/d y-o-y increase reflects the relative absence of large-scale public-health restrictions, in contrast to 2021. Demand for every major product except naphtha increased significantly and each of the three OECD sub-regions had higher y-o-y deliveries.

However, this apparent stability disguises some variation within the quarter, with January up by 3 mb/d y-o-y and February a remarkable 5 mb/d higher but March only 1.4 mb/d stronger. Significantly higher oil product prices and greater economic uncertainty, are combining to cool demand across all OECD regions, with March falling 570 kb/d faster from February than the seasonal trend.



Preliminary data suggest that March demand for gasoil contracted by 30 kb/d y-o-y, reflecting worsening business confidence and supply chain problems, with naphtha demand tumbling by 230 kb/d as weak steam cracker margins based on the feedstock saw operators cut rates or switch to LPG (+520 kb/d) where possible. Gasoline demand held up better, with greater resilience in personal mobility and lower pricing compared to diesel. Jet/kerosene accounts for a large majority of the growth compared with 2021, standing 980 kb/d higher.

Average annual demand is forecast to rise by 1.2 mb/d to 45.9 mb/d. While 1Q22 saw considerable y-o-y growth at 3.2 mb/d (compared with the relatively weak 1Q21), higher prices and faltering economic growth are expected to take their toll through the rest of the year in line with our previous forecasts. Demand in 2Q22 will be up by 1.4 mb/d, 3Q22 500 kb/d higher and 4Q22 deliveries 320 kb/d lower than in 2021.

	OECD Demand based on Adjusted Preliminary Submissions - March 2022															
						(million	barrels pe	r day)								
	Gaso	line	Jet/Ker	osene	e Diesel		Other (Gasoil	LPG/Ethane		RFO		Other		Total Products	
	mb/d	% pa	m b/d	% pa	mb/d	% pa	mb/d	% pa	mb/d	% pa	mb/d	% pa	m b/d	% pa	mb/d	% pa
OECD Americas	10.14	0.0	1.73	32.9	3.32	-0.1	1.88	-6.2	3.94	10.4	0.47	-19.6	2.85	-4.2	24.25	2.0
US*	8.54	-0.9	1.52	28.6	2.48	-3.5	1.50	-6.4	3.08	11.4	0.30	-12.8	2.29	-5.1	19.63	1.2
Canada	0.78	-3.8	0.10	76.0	0.26	-1.6	0.32	-10.4	0.50	6.5	0.04	35.6	0.37	11.6	2.36	2.2
Mexico	0.76	17.6	0.09	83.9	0.41	32.0	0.06	34.0	0.32	9.2	0.11	-44.1	0.17	-14.5	1.91	10.4
OECD Europe	1.92	11.9	1.08	84.8	4.90	1.6	1.59	-0.3	1.17	4.1	0.83	17.0	2.19	-1.3	13.41	7.2
Germany	0.43	-3.1	0.13	39.2	0.67	-4.9	0.28	8.0	0.11	-13.8	0.07	26.4	0.36	-0.9	2.03	0.2
United Kingdom	0.25	16.2	0.28	72.6	0.45	-3.2	0.15	3.7	0.13	2.4	0.02	30.9	0.12	15.5	1.37	13.8
France	0.22	14.3	0.11	90.7	0.75	0.8	0.15	1.9	0.15	17.7	0.04	53.8	0.21	-4.4	1.63	7.6
Italy	0.19	40.0	0.06	155.4	0.53	16.6	0.07	-7.7	0.12	31.5	0.07	28.6	0.26	0.4	1.29	19.0
Spain	0.11	-0.8	0.11	240.3	0.44	-2.4	0.26	-5.4	0.07	3.4	0.13	13.9	0.19	-8.7	1.25	3.7
OECD Asia & Oceania	1.32	-3.6	0.71	9.2	1.32	-3.8	0.58	11.7	0.91	12.2	0.52	10.4	2.30	-3.5	7.61	1.1
Japan	0.71	-2.7	0.43	6.4	0.42	-0.9	0.37	9.7	0.48	2.1	0.28	4.4	0.85	-10.7	3.54	-1.3
Korea	0.19	-9.8	0.15	1.2	0.31	-7.5	0.14	17.6	0.37	32.2	0.22	16.3	1.27	1.6	2.61	4.5
Australia	0.29	-4.0	0.10	44.4	0.52	-3.9	-	-	0.04	0.3	0.01	41.9	0.12	-3.7	1.08	0.0
OECD Total	13.38	1.2	3.52	38.8	9.54	0.2	4.05	-1.7	6.02	9.4	1.82	3.2	7.34	-3.1	45.28	3.3

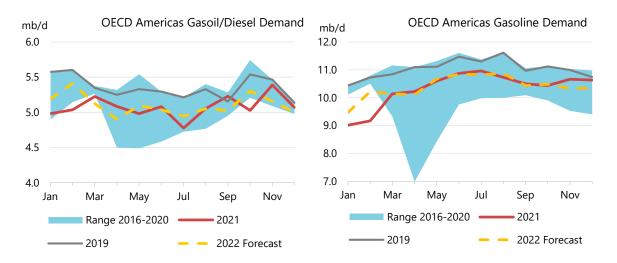
February rebound in OECD Americas but slowdown looming

OECD Americas oil demand showed renewed strength in February, rising by 820 kb/d m-o-m, according to monthly oil statistics submitted by member countries. This jump dramatically outpaced the typical 150 kb/d rise, marking a break with underwhelming January data. However, preliminary weekly estimates for March and April from the US Energy Information Administration (EIA) suggest that growth is already slowing. We estimate that demand will slump by 790 kb/d from February to March, when it usually increases slightly, and by a further 120 kb/d in April. Overall 1Q22 demand was 1.7 mb/d higher y-o-y, with gasoline (+480 kb/d) and jet/kerosene (+390 kb/d) benefitting from an easing of public health restrictions this year, and LPG use (+530 kb/d) profiting from new ethane-based petrochemical capacity given the competitiveness of such plants in comparison to relatively high-cost naphtha crackers in other regions.

Gasoline (+750 kb/d m-o-m and +1.1 mb/d y-o-y) was the leading driver of the stronger February data. US Federal Highway Administration (FHA) data showed that the distance travelled by vehicles in the country rose from 7.7 billion miles per day in January to 8.4 billion miles each day in February (+11%). US gasoline demand increased by 620 kb/d. Gasoil deliveries rose counter-seasonally, climbing by 220 kb/d m-o-m. The *S&P Global US Manufacturing Purchasing Managers Index (PMI)* stood at 58.6 in February indicating strong expansion. In addition to robust US volumes, Mexican demand, estimated based on data from Pemex, continued to gather pace in February, after a disappointing 2021, rising by 100 kb/d m-o-m. This trend was reproduced in March (+190 kb/d) and we have lifted our outlook for the rest of 2022. Chilean demand also outperformed our expectations, rising by 30 kb/d m-o-m on higher gasoline use.

This positive momentum went into reverse in March, with preliminary information indicating that US gasoline deliveries declined (-90 kb/d m-0-m) contrary to typical seasonality and that gasoil use dropped by 300 kb/d. This decline continued into April, falling by another 130 kb/d. If confirmed, this would suggest that the impact of increased prices was felt almost immediately,

but should be treated with caution given the possibility of revision once monthly statistics become available. Diesel prices rose considerably faster than those for gasoline. The unexpectedly weak data form a striking contrast with very strong PMI readings for both manufacturing (rising from 58.8 in March to 59.7 in April – the third successive increase) and services (58 in March and 55.6 April). Notwithstanding this evidence of rising output, anecdotal reports of difficulties for freight operators due to rising costs are confirmed by *DAT Freight & Analytics*, who identify a dramatic 21% y-o-y decline in spot truck cargoes for April.



Based on these indications that higher prices are already having a substantial impact on demand, we have slightly reduced our 2022 outlook for US demand. However, these falls are outweighed by greater expectations for Mexico and we now project growth of 550 kb/d for 2022 for the Americas as a whole. Most of this growth is concentrated in 1Q22, with demand staying close to 2021 levels throughout the rest of the year.

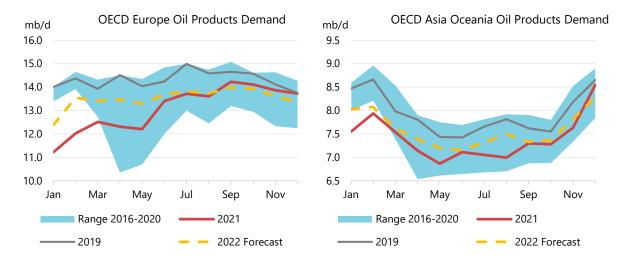
OECD Europe deliveries steady

Overall 1Q22 demand in OECD Europe rose by 1.2 mb/d y-o-y despite anti-Covid restrictions in several key countries. While there were partial lockdowns in Germany and the Netherlands during January, these were less prevalent than in 1Q21 and eased during February and March, clearing the path to higher demand. Member country monthly statistics reveal that February deliveries were 1.2 mb/d in excess of January – about 250 kb/d faster than average for the month. Gasoil was the primary motor of growth, accounting for 800 kb/d of the increase (+620 kb/d y-o-y) while gasoline went up by 190 kb/d m-o-m. The *S&P Global Eurozone Manufacturing PMI* was at 58.2 in February but slid to 56.5 in March and 55.5 in April as cost pressures and greater supply chain challenges hit manufacturing operations. We project y-o-y gasoil demand growth to slacken to 70 kb/d in March.

Survey data for German manufacturers shows that new orders and output contracted in April (the first time since June 2020), although both the Netherlands and France reported quickening expansion. We expect the pressures on European economies, along with the impact of higher oil pricing, to weigh ever more heavily on demand through the year. While overall 2022 demand will be 440 kb/d higher than 2021, virtually all this growth will take place in 1H22, with 4Q22 demand 260 kb/d lower y-o-y.

Fuel switching from natural gas to oil in industry provided substantial support to gasoil demand in 1Q22, estimated at 250 kb/d as higher natural gas prices made oil an attractive alternative.

However, the subsequent stabilisation of gas prices and sharp increases in middle distillate costs have now brought the fuels close to price parity once again, suggesting that some consumers will now be incentivised to switch back to gas, which will ease demand for oil. Indeed, provisional March data for Germany suggests that other gasoil demand (i.e. non-diesel gasoil) was about 100 kb/d lower than previously forecast, a sign that tighter distillate markets are limiting this form of consumption.



OECD Asia Oceania demand subdued in March

Based on preliminary submissions, March OECD Asia Oceania demand fell by 460 kb/d m-o-m to 7.5 mb/d, 230 kb/d below our expectations in last month's *Report*. The decline was in part driven by typical seasonal variation, with jet/kerosene use going down by 240 kb/d as winter heating requirements declined. However, y-o-y growth slowed to 80 kb/d from 140 kb/d in February with gasoline demand down by 50 kb/d and signs that petrochemical producers were trimming rates. Combined naphtha and LPG deliveries were 30 kb/d lower y-o-y, despite new plant start-ups during 2021 and showed a major shift towards LPG use (+100 kb/d) at the expense of naphtha (-130 kb/d). In particular, Japanese naphtha consumption tumbled by 150 kb/d compared with 2021, with four of the country's 12 steam crackers reportedly down for at least part of the month (three for checks following March's earthquake).

For 1Q22 total Asia Oceania demand rebounded by 230 kb/d y-o-y but remained some 460 kb/d lower than 1Q19. Gasoline and naphtha continue to lag 2021 levels and all major products, save fuel oil and LPG, are lower than in 2019. Various forms of fuel switching as a result of high relative natural gas pricing likely contributed an additional 100 kb/d to demand over the quarter.

Growth is forecast to slow slightly in 2Q22, to 210 kb/d y-o-y. The higher price outlook and economic headwinds apparent in almost every region will restrict the scope for increases, but our assumptions do not imply an abrupt downturn in demand. *S&P Global* PMIs for manufacturers indicated continued expansion in Japan (53.5), Korea (52.1) and Australia (58.8) in April. As in other advanced economies, the gap between 2021 and 2022 demand will narrow throughout the year, with Asia Oceania demand essentially flat y-o-y by 4Q22.

Non-OECD

Total non-OECD oil use was close to record levels in 1Q22. At 53.3 mb/d, non-OECD demand stood 1.3 mb/d higher than a year ago and 1.5 m/d in excess of pre-pandemic levels. However, severe and increasingly widespread Covid-19 containment measures in China, international sanctions on Russia and the impact of higher prices is expected to cool oil use in 2Q22. Demand is forecast 610 kb/d lower quarter-on-quarter (q-o-q), to stand only 160 kb/d ahead of 2Q19.

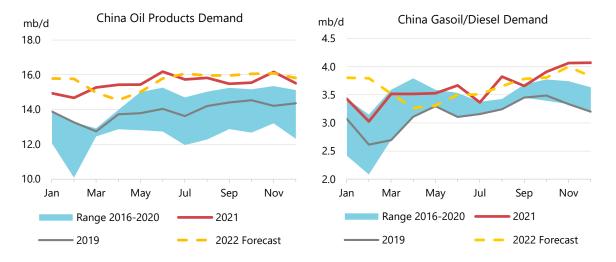
China's lockdowns are creating widespread disruption to personal mobility and activity as well as a range of different industries. Total 2Q22 oil use in China is expected to fall by 570 kb/d y-o-y compared with annual growth of 520 kb/d in 1Q22. Oil demand in Russia is already showing the strain of international pressure, falling by 150 kb/d m-o-m (-30 kb/d y-o-y) in March and with domestic businesses reporting significant problems. Deliveries in India (+220 kb/d y-o-y), Latin America (+140 kb/d), the Middle East (+140 kb/d) and Egypt (+120 kb/d) saw more positive trends. While we expect problems in Russia to persist, China should return to growth before the end of the year, helping total non-OECD demand grow by 640 kb/d to 53.4 mb/d for 2022.

	Non-OECD: Demand by Product												
(tho usand barrels per day)													
		ſ	Demand		Annual Chg	(kb/d)	Annual Ch	g (%)					
	2019	2020	2021	2022	2021	2022	2021	2022					
LPG & Ethane	7 748	7 888	8 322	8 557	434	236	5.5%	2.8%					
Naphtha	3 080	3 238	3 549	3 605	311	56	9.6%	1.6%					
Motor Gasoline	12 128	10 976	12 047	12 303	1 071	256	9.8%	2.1%					
Jet Fuel & Kerosene	3 447	2 090	2 221	2 337	131	116	6.2%	5.2%					
Gas/Diesel Oil	14 580	13 832	14 637	14 833	805	195	5.8%	1.3%					
Residual Fuel Oil	4 359	4 217	4 373	4 353	157	- 20	3.7%	-0.5%					
Other Products	7 339	7 548	7 636	7 434	88	- 202	1.2%	-2.6%					
Total Products	52 681	49 788	52 785	53 423	2 997	638	6.0%	1.2%					

Chinese demand reels on deepening lockdowns

Cities across China continue to be gripped by stringent lockdowns designed to stop the spread of Covid-19. These measures appear to have been, at most, a partial success. Reported new cases have declined from a late-April peak and are low in comparison with many Western countries. Nevertheless, the lockdowns required to achieve this have often been longer and more severe than initially expected, while the virus continues to spread to new cities and regions. Most notably, Beijing has introduced a number of new restrictions although not yet as severe as in Shanghai. Japan's *Nomura Research Institute* estimated that in late-April almost 330 million people across 43 Chinese cities were under some form of lockdown. This geographical widening highlights the possibility of new public health measures and has the potential to substantially deepen and extend the impact on oil demand.

Demand



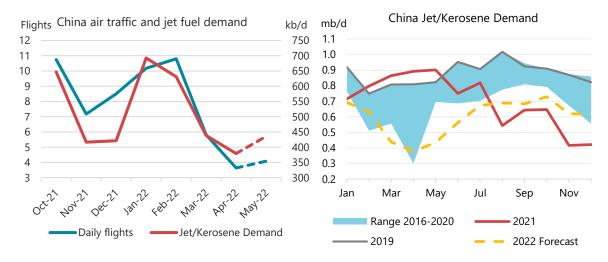
Provincial-level information on restrictions produced by Oxford University's *Blavatnik School of Government* underscores the growing scale of the measures in effect. A weighted average of restrictions has remained above 75% of maximum 2020 levels since mid-March, with little sign of a major decrease. The *China Caixin Manufacturing PMI* fell to 46 in April from 48.1 in March. In the second heaviest fall on record, their *Services PMI* slumped to 36.2 versus 42 in March. Both indices are at their lowest since April 2020 and indicate substantial contractions. Such limits on activity and their economic corollaries have led us to further reduce our expectations for Chinese oil demand in 2Q22 by 275 kb/d on average. For the year as a whole, we now forecast demand to grow by only 130 kb/d, reaching 15.7 mb/d. This is 50 kb/d lower than in the April *Report* and 300 kb/d below our February forecast.



Sources: IEA, Oxford University BSG

March apparent demand recorded a m-o-m fall of 800 kb/d, compared with an average seasonal drop of 140 kb/d. March oil use was 310 kb/d lower than a year ago, the first y-o-y decline since February 2020 and a strong contrast with the 1.1 mb/d annual growth in February 2022. All major products except LPG (+70 kb/d) fell m-o-m. Gasoil lead the declines (-270 kb/d), but jet/kerosene, naphtha and gasoline demand (each about -190 kb/d lower) also dropped steeply. Despite a weaker final month, 1Q22 demand rose by 520 kb/d y-o-y. While road fuel demand is likely to benefit to a limited extent from widespread public transport closures, we have reduced our expectations for April oil use to 14.5 mb/d, 420 kb/d lower than March and 890 kb/d below a year ago. We expect demand to fall by 570 kb/d y-o-y in 2Q22.

The large decline in gasoil demand principally reflects the slowdown in manufacturing and commercial activity. We estimate that this worsened in April, as evidenced by the lower PMI values. Factories across the country are closed or hampered by lockdown measures and ensuing supply chain issues. Rising global commodity prices have added further difficulties for businesses. Similarly, gasoline demand has been hindered by a large decline in personal mobility and consumer activity. Alongside the low March and April services PMI numbers, Alibaba reported that sales via their Taobao e-commerce platform tumbled by 8% y-o-y in March. Baidu's *Congestion Index* suggests that during late April and early May, traffic was noticeably reduced compared with 2021 in more than half of China's largest 98 cities. In Shanghai (home to 25 million people) there was an almost total lack of congestion throughout April, with similarly large reductions in peak traffic in cities like Jinan (9 million people) and Changchun (also 9 million people). Notably, in recent weeks the index for Beijing (22 million people) indicates a significant disruption to normal behaviour.



Sources: IEA, Radarbox.

While major ports in affected areas have been able to keep operating, significant congestion has disrupted supply chains for local producers and bunker fuel demand. Consulting firm *Linerlytica* reported that congestion at Shanghai (the world's busiest port) and Ningbo rose steadily during March and April while data provider *Windward* indicated that the number of vessels waiting at Chinese ports doubled from February to mid-April. Fuel oil use in China was 75 kb/d lower m-o-m in March (15% lower y-o-y) and we expect it to remain subdued in April. Recent fuel oil data in associated shipping centres Hong Kong (February -6% y-o-y) and Singapore (February -13% and March -9% y-o-y) highlights the extent of these disruptions.

In proportion to market size, jet/kerosene use experienced the most precipitous fall of any product, collapsing by 44% m-o-m. According to data from *Radarbox*, the number of flights from Chinese airports plummeted by a remarkable 46% m-o-m. Having stood at 10 800 each day in February they tumbled to 5 800 a day in March before all-but-reaching February 2020 levels in April, at only 3 300 a day (a further 43% fall). Jet/kerosene demand fell by 190 kb/d in March and we expect this fall to be extended by a further 60 kb/d in April. Flight numbers ticked upwards in early May but remain at remarkably low levels. Any rebound in demand is likely to take several months and could struggle to return to 1H21 levels during 2022.

Naphtha demand slumped by 190 kb/d in March. This reflected a combination of lower operating rates at Chinese steam crackers, with tighter margins and supply chain issues, alongside a switch

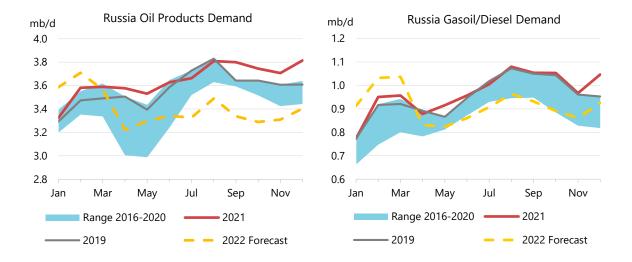
by flexible cracker operators in favour of LPG consumption as margins based on the lighter feedstock became more favourable. As in other countries, we expect that petrochemical producers will maximise the share of LPG feedstock used throughout the year. Ship-tracking data from *Kpler* showed lower imports of US ethane bound for steam crackers during March, down by 50 kb/d to just under 100 kb/d. These leapt to 170 kb/d April, the highest level since September 2021. LPG/ethane demand is projected to rise by 220 kb/d in 2022, the fastest growth of any oil product in the country.

	China: Demand by Product												
	(tho usand barrels per day)												
			Demand		Annual Chg	(kb/d)	Annual Ch	g (%)					
	2019	2020	2021	2022	2021	2022	2021	2022					
LPG & Ethane	1 781	1 912	2 230	2 445	317	215	16.6	9.7					
Naphtha	1 373	1 478	1 679	1 769	201	90	13.6	5.4					
Motor Gasoline	3 332	3 284	3 630	3 674	345	44	10.5	1.2					
Jet Fuel & Kerosene	877	722	700	596	- 21	- 104	-3.0	-14.9					
Gas/Diesel Oil	3 151	3 259	3 636	3 642	377	6	11.6	0.2					
Residual Fuel Oil	444	445	481	483	36	2	8.1	0.3					
Other Products	2 948	3 197	3 165	3 041	- 32	- 123	-1.0	-3.9					
Total Products	13 905	14 298	15 521	15 651	1 223	130	8.6	0.8					

Russia sanctions begin to bite

As expected, March data for Russia shows a substantial decline in demand. Total oil use dropped by 150 kb/d m-o-m, where the normal seasonal change is for a 20 kb/d fall. Jet/kerosene (-30 kb/d) and fuel oil (-40 kb/d) saw the largest reductions. Commercial flights from major Russian airports tumbled by 31% in March according to *FlightRadar24* data. However, jet fuel demand was partly insulated by the near trebling of Russian military consumption from 30 kb/d in January to almost 90 kb/d in early April. International flights from Russia have been severely restricted due to airspace closures and the possibility of the seizure of leased aircraft at foreign airports, while domestic flight numbers have been curtailed by the continued closure of airports across a large swathe of south-western Russia. Our jet/kerosene demand outlook has been revised slightly higher on a partial rebound in domestic flights in late April and early May. Nonetheless, we expect maintenance and equipment issues to weigh more heavily on demand in 2H22.

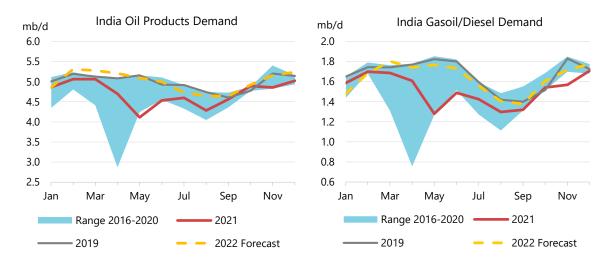
Gasoil and gasoline demand both exceeded expectations in March. Gasoil demand was flat, in contrast to the ordinary seasonal rise. Gasoline use was also largely unchanged, outperforming the normal seasonal fall. According to *GlobalPetrolPrices.com*, domestic diesel and gasoline prices did not rise significantly in March or April (indeed gasoline prices actually fell). Our previous projections assumed that effective prices would increase along with global markets, weighing on demand. We have modified our assumptions slightly to lessen the price impact on Russian domestic consumption. Nevertheless, the outlook for 2022 remains grim – as evidenced by a third month of declines in the *S&P Global Russia Manufacturing PMI*, which registered at 48.2 in April amid the impact of sanctions, rampant inflation and a fall in new orders as customer confidence remained weak. Total 2022 oil demand will be 240 kb/d lower y-o-y at 3.4 mb/d.



Growth cools amid Indian price hikes

Total Indian demand declined by 70 kb/d m-o-m in April. Gasoline and gasoil use were essentially flat m-o-m, as firms began to pass on higher global prices to consumers. On 22 March, state companies ended a 137-day freeze on prices, following a round of state elections. The first half of April recorded a 10% m-o-m fall in gasoline demand and a 16% fall in diesel demand. In March, stock-building by users in anticipation of price hikes had contributed to unusually strong sales. Demand for LPG, which is important for residential cooking and heating, dropped by an estimated 90 kb/d m-o-m in April (in excess of the average seasonal 50 kb/d decline). LPG sales in March are believed to have benefitted substantially from stock-building ahead of a 50 Rupees per cylinder price increase.

Nevertheless, overall April demand was 510 kb/d higher y-o-y. During April 2021, India was in the midst of severe anti-Covid lockdowns. Compared with the weak baseline, 2Q22 demand is expected to climb 660 kb/d y-o-y, with annual growth of 290 kb/d for 2022. The *S&P Global India Manufacturing PMI* shows activity gathering pace in April, up to 54.7 from 54 in March.



Growth is forecast to slow dramatically in 3Q22, to 190 kb/d y-o-y. The principal reason for this is the comparison to a stronger period in 2021, when lockdowns were easing. Additionally, higher oil prices will erode oil use, especially personal consumption. We forecast that 3Q22 gasoline use will be flat y-o-y while growth for gasoil will slow to 100 kb/d, from 290 kb/d in 2Q22. Broadly

	India: Demand by Product (thousand barrels per day)												
	Demand Annual Chg (kb/d) Annual Chg (%)												
	2019	2020	2021	2022	2021	2022	2021	2022					
LPG & Ethane	837	869	888	898	19	10	2.1%	1.1%					
Naphtha	308	318	319	308	2	- 11	0.5%	-3.4%					
Motor Gasoline	734	667	750	781	83	31	12.4%	4.1%					
Jet Fuel & Kerosene	225	120	128	159	9	30	7.2%	23.5%					
Gas/Diesel Oil	1 667	1 414	1 516	1 637	102	121	7.2%	8.0%					
Residual Fuel Oil	145	136	141	145	6	4	4.1%	2.6%					
Other Products	1 076	1 016	968	1 078	- 49	110	-4.8%	11.4%					
Total Products	4 991	4 540	4 711	5 006	171	294	3.8%	6.2%					

speaking, this situation is likely to persist into 4Q22 (+180 kb/d y-o-y) with average 2022 demand standing 20 kb/d higher than 2019 levels at 5 mb/d.

Other Non-OECD

Brazil posted strong oil demand in March, 70 kb/d in excess of our previous expectations. Gasoil use (-20 kb/d y-0-y) was close to the unusually high level of March 2021, while gasoline posted 80 kb/d y-0-y growth. Overall 1Q22 demand was flat y-0-y. Improving assessments of the country's economic position, with the *S&P Global Brazil Manufacturing PMI* showing increased activity in both March (52.3) and April (51.8), is supporting the outlook. Our GDP growth assumptions have been raised for 2Q22 and 3Q22, albeit from a low base. We now expect Brazilian demand to fall by only 20 kb/d, to just over 3 mb/d during 2022. Total Latin American oil demand is forecast to rise by 60 kb/d for the year as a whole, reaching 6.4 mb/d.

Projected **Middle Eastern** demand growth for 2022 has increased to 110 kb/d, following an upward revision to our GDP estimates for major energy exporters in the region. Higher global commodity prices have strengthened local economies and we forecast gasoline and jet/kerosene demand to rise by about 100 kb/d each compared with 2021. This will easily outweigh the sizeable reductions in the quantity of crude oil burnt for power generation as Gulf economies continue to diversify their sources of electricity.

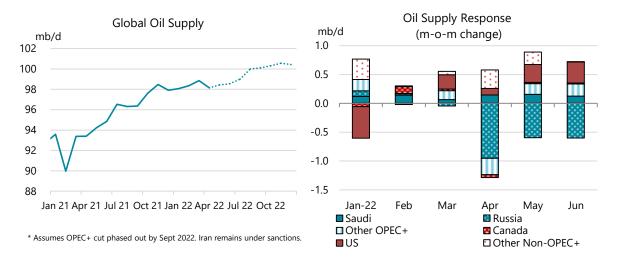
African oil use grew by 120 kb/d in 1Q22, with fuel oil use in **Egypt** increasing by an average of 90 kb/d in January and February as the government prioritised LNG exports from Idku and Damietta and oil filled the gap in power generation. Increased traffic through the Suez Canal during April (6.3% higher y-o-y) likely supported bunker demand at Egypt's ports. We expect total Egyptian demand to be 70 kb/d higher y-o-y in 2022.

	Non-OECD: Demand by Region												
(tho usand barrels per day)													
			Demand		Annual Chg	(kb/d)	Annual Chę	g (%)					
2019 2020 2021 2022 2021 2022 2021 202													
Africa	4 244	3 812	4 036	4 154	225	118	5.9	2.9					
Asia	27 911	26 934	28 683	29 332	1 749	649	6.5	2.3					
FSU	4 723	4 497	4 778	4 465	281	- 313	6.3	-6.6					
Latin America	6 310	5 631	6 029	6 096	397	67	7.1	1.1					
Middle East	8 710	8 206	8 522	8 629	317	107	3.9	1.3					
Non-OECD Europe	782	708	737	746	28	9	4.0	1.3					
Total Products	52 681	49 788	52 785	53 423	2 997	638	6.0	1.2					

Supply

Overview

World oil supply fell to 98.1 mb/d in April, down 710 kb/d - the biggest monthly loss since February 2021 – after Russia shut-in nearly 1 mb/d. Production from other OPEC+ members continued to disappoint, with total oil output from the bloc down more than 1 mb/d. Libya and Kazakhstan lost more than 400 kb/d between them due to unplanned closures at export terminals. The sharp declines widened the shortfall between the bloc's supply versus official output targets to around 2.7 mb/d compared to 1.3 mb/d in March, reflecting the group's persistent battle with capacity constraints and technical issues. The overall global decline was partially offset by higher non-OPEC+ supply, which rose by 380 kb/d led by strong gains in biofuels and a modest production increase from the United States.



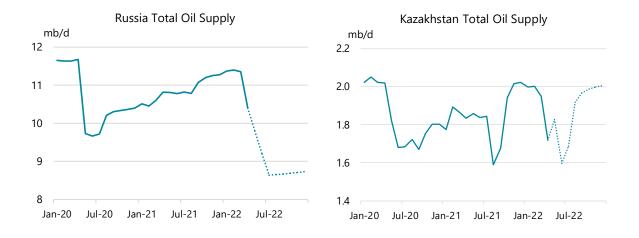
Over time, steadily rising volumes from Middle East OPEC+ members and the US along with slower demand growth is expected to fend off an acute supply deficit even amid a worsening Russian disruption. Excluding Russia, output from the rest of the world is set to rise by 3.1 mb/d from May through December. The US is expected to deliver the single largest gain – adding 1.1 mb/d of the total non-OPEC+ increase of 1.5 mb/d. OPEC+ is poised to boost output gradually by 1.6 mb/d if cuts are unwound fully, with Middle East producers delivering the lion's share. Saudi Arabia is slated to add 480 kb/d while Iraq, Kuwait and the UAE combined could contribute a similar amount. For the year as a whole, production is forecast to rise 5.2 mb/d y-o-y (excluding Russia), with OPEC+ accounting for 3.4 mb/d and non OPEC+ for 1.8 mb/d.

Russia turns down taps as sanctions bite

After holding broadly steady in March, **Russian** oil production plunged during April as the country's refiners processed much less crude due to slower products exports and falling domestic demand in the wake of Western sanctions. Though a smaller drop than we anticipated in last month's *Report*, total output of crude oil, condensates and NGLs tumbled 960 kb/d m-o-m to 10.4 mb/d in April, the lowest level since November 2020. Supply of crude oil declined by 900 kb/d

to 9.1 mb/d, which was 1.3 mb/d below the country's OPEC+ target. Top producer Rosneft has reportedly shouldered much of the reduction so far. Sanctions are also taking a toll on projects operated by Western oil companies. ExxonMobil declared *force majeure* at the 300 kb/d Sakhalin-1 field where it is curbing output as operations become more difficult. The company intends to withdraw from the country following Russia's invasion of Ukraine.

As sanctions tighten and a lack of storage forces producers to shut in still more wells, we are expecting a further loss of 600 kb/d this month – taking the overall decline since February to around 1.6 mb/d. This could stretch to more than 2 mb/d in June and deepen to close to 3 mb/d from July onwards if existing sanctions deter further buying or should the embargo on Russian oil expand (at the time of writing, the EU was still discussing a ban on Russian oil imports). If that were to prove the case, annual average oil production would fall to 9.6 mb/d, a yearly level last seen in 2004. Given the rapidly evolving situation and high degree of uncertainty, our estimates are under continuous review and will be revised as necessary.

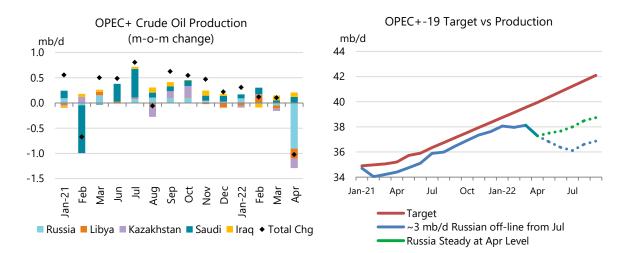


In neighbouring **Kazakhstan** maintenance and repair work is making for erratic flows. Output slumped during March and April due to unscheduled outages, is rebounding in May but is set to fall again in June because of planned maintenance. Total oil production of crude oil and condensates fell by 230 kb/d in April to 1.72 mb/d, with crude oil dropping by 190 kb/d to 1.41 mb/d due to repair of the Caspian Pipeline Consortium (CPC) loading terminal on Russia's Black Sea coast. Before the unscheduled maintenance that started in March, total oil supply stood at 1.95 mb/d.

By late April, the CPC terminal and pipeline returned to full capacity – with production recovering to above 1.9 mb/d. Those higher rates are holding up so far this month, which suggests the country's top three fields – Tengiz, Kashagan and Karachaganak are pumping at or near March levels. Kashagan, which had been producing around 400 kb/d, is due for maintenance from May through July, with a full field shut down next month. Following the upgrade work, Kashagan output is expected to rise to around 450 kb/d.

OPEC+ holds firm on policy

The 23-member OPEC+ bloc agreed on 5 May to stick with its existing policy to raise crude oil output in modest monthly increments. It endorsed a 432 kb/d supply rise for June, in line with its



plan to phase out record cuts enforced in 2020 when demand collapsed in the wake of Covid. The producer group is due to meet again on 2 June.

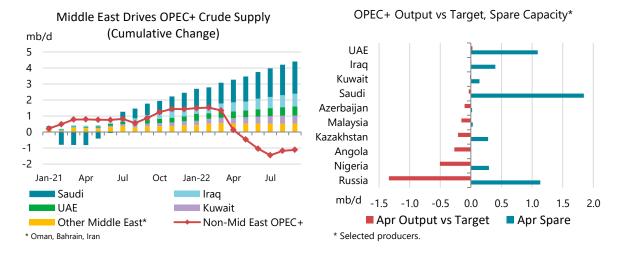
During April, total crude oil production from all 23 members of the OPEC+ bloc plunged 1.03 mb/d to 43.12 mb/d. Production of crude from OPEC countries edged up 50 kb/d to 28.67 mb/d in April as higher flows from Saudi Arabia and Iraq offset a hefty decline in Libya. Non-OPEC partners pumped 14.45 mb/d, down 1.08 mb/d, led lower by Russian losses. The magnitude of the Russian decline meant that - taking into account only the 19 members bound by the supply deal - output tumbled 840 kb/d compared to a planned 400 kb/d increase. As a result, their combined production trailed roughly 2.7 mb/d below target in April compared to a deficit of 1.3 mb/d the previous month. Apart from Russia, many countries can't keep up with rising targets due to dwindling spare capacity and reduced operational efficiency. Prime examples are Nigeria and Angola, which between them pumped nearly 800 kb/d below target in April.

Steady Rise of Middle East OPEC+

Core Gulf producers are tapping into their spare capacity to continue along an upward supply trend through this year. From January 2021 to April 2022, Saudi Arabia, the UAE, Iraq and Kuwait have added a combined 2.8 mb/d of crude oil and should boost that amount to 3.9 mb/d by September when OPEC+ cuts are due to be phased out.

Only Saudi Arabia and the UAE hold substantial, readily available spare capacity and so far they are lifting supply broadly in line with their previously-agreed OPEC+ quotas. During April, **Saudi Arabia** pumped 10.4 mb/d of crude oil, up 120 kb/d m-o-m.

In **Iraq**, production rose 90 kb/d to 4.42 mb/d in April. Refinery glitches cut internal consumption, but exports climbed 180 kb/d to 3.8 mb/d, the highest rate since March 2020. Shipments of southern Basrah crude increased by 90 kb/d to 3.29 mb/d in April, while loadings from the north rose by the same amount to 510 kb/d. Output in **Kuwait** inched up while supply held steady in the **UAE** during April. In a rare move that suggests global trade flows may be readjusting to shifts in Russian oil supplies, TotalEnergies's shipping arm reportedly chartered a tanker to load Murban crude from the UAE in early May for Europe.



Iran's crude oil output eased to 2.55 mb/d. Negotiations between Tehran and the West to revive the 2015 nuclear deal have been on hold since March, primarily because Iran insists that the US must remove the Islamic Revolutionary Guard Corps from its list of Foreign Terrorist Organization. Iran could be a source of significant supplies if sanctions were to be eased, although its return to the market would not happen overnight.

			Crude Oil Produ	uction		
			million barrels per day)			
	Mar 2022	Apr 2022	April	Apr 2022	Sustainable	Spare Cap
	Supply	Supply	Compliance	Target	Capacity ²	vs Apr
Algeria	1.00	1.00	104%	1.00	1.00	0.00
Angola	1.14	1.18	446%	1.45	1.15	0.00
Congo	0.26	0.27	344%	0.31	0.29	0.02
Equatorial Guinea	0.09	0.10	450%	0.12	0.11	0.01
Gabon	0.20	0.19	-30%	0.18	0.20	0.01
Iraq	4.33	4.42	97%	4.41	4.82	0.40
Kuwait	2.64	2.65	110%	2.67	2.79	0.14
Nigeria	1.25	1.23	637%	1.74	1.52	0.29
Saudi Arabia	10.28	10.40	106%	10.44	12.24	1.84
UAE	3.03	3.03	85%	3.01	4.12	1.09
Total OPEC-10	24.22	24.47	162%	25.32	28.25	3.81
Iran ³	2.58	2.55			3.80	1.25
Libya ³	1.10	0.90			1.20	0.30
Venezuela ³	0.72	0.75			0.75	0.00
Total OPEC	28.62	28.67			34.00	5.37
Azerbaijan	0.58	0.58	376%	0.68	0.60	0.02
Kazakhstan	1.60	1.41	340%	1.62	1.69	0.28
Mexico ⁴	1.63	1.64		1.75	1.69	0.05
Oman	0.83	0.84	100%	0.84	0.87	0.03
Russia	10.00	9.10	337%	10.44	10.23	1.13
Others⁵	0.89	0.89	392%	1.05	0.94	0.05
Total Non-OPEC	15.53	14.45	330%	16.38	16.02	1.56
OPEC+-19 in cut deal [*]	38.12	37.28	223%	39.94	42.58	5.33
Total OPEC+	44.15	43.12			50.02	6.93

1 Excludes condensates.

2 Capacity levels can be reached within 90 days and sustained for extended period.

Mexico excluded from OPEC+ compliance. Only cut in May, June 2020.
 Bahrain, Brunei, Malaysia, Sudan and South Sudan.

Iran, Libya, Venezuela exempt from cuts.

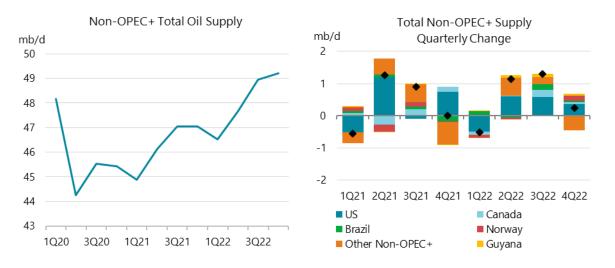
In terms of crude oil supply, **Libya** posted the second largest decrease within OPEC+, with output falling 200 kb/d to 900 kb/d due to political unrest. Since mid-April, at least 500 kb/d has been offline because of field and export terminal closures that forced the National Oil Corp (NOC) to declare *force majeure* on loadings from several ports. On 1 May, NOC lifted *force majeure* at the Zueitina oil terminal, which should see the resumption of some 90 kb/d. But at the time of writing, the order remained in place at Libya's biggest oil field, El-Sharara, and the nearby El-Feel in the

southwest as well as the eastern port of Marsa el-Brega. Because of its ongoing political crisis, the country remains prone to supply outages.

Disruptions are also hitting output elsewhere in Africa. In **Gabon**, Perenco has reportedly declared *force majeure* for 150 days following a late-April leak at its 130 kb/d Cap Lopez oil terminal. Roughly 50 kb/d is expected to be offline. Crude production during April was 190 kb/d. Perenco shut the terminal near Port Gentil after a storage tank leaked more than 300,000 barrels of oil. The cause of the spill is still unclear.

Non-OPEC+ growth concerns linger

Total oil volumes from non-OPEC+ countries grew by 380 kb/d to 47.2 mb/d in April, following seasonally higher biofuels production and increased output from the US and Brazil. Non-OPEC+ oil supply is projected to average 48.1 mb/d in 2022, a boost of 1.8 mb/d y-o-y. The US is expected to add 1.2 mb/d, or 64% of the non-OPEC+ 2022 gain. Growth will also come from Canada and Guyana, up by 190 kb/d and 140 kb/d, respectively.

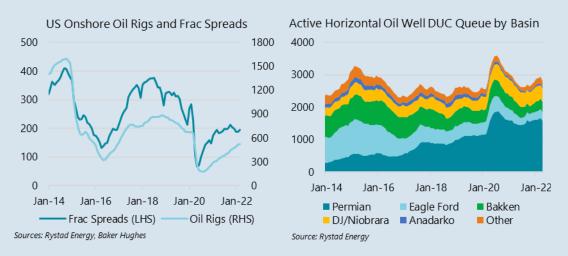


US output rose by an estimated 110 kb/d m-o-m in April to 17.3 m/d, driven by a seasonal rebound in NGLs while a late winter freeze cut output in North Dakota. In February, the latest month for which official data from the Energy Information Administration (EIA) is available, total oil supply fell by 20 kb/d. February declines of 100 kb/d m-o-m in the Gulf of Mexico (GoM) were offset by a marginal increase in onshore crude production and NGL volumes. Total US output is forecast to average 17.9 mb/d in 2022, down 90 kb/d compared with last month's *Report*.

US GoM 2022 annual volumes were revised down by 80 kb/d in this *Report*, primarily from lower baseline production. Supply is nonetheless expected to increase by close to 100 kb/d y-o-y to 1.8 mb/d as new projects come online (Kings Quay, Power Nap, Mad Dog South and Vito) and others such as Jack Saint Malo and Julia continue to grow.

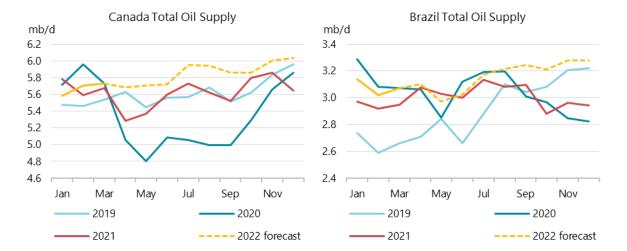
Greater than expected weather effects at the start of the year, an extremely tight oilfield services (OFS) sector and a recent slowdown in completions underpin a 90 kb/d downward revision to our 2022 US LTO forecast. While frack spreads, rigs and labour availability should allow for growth over the course of the year, with output projected to rise by 1.1 mb/d on average to 8.3 mb/d, continued tightness in oilfield services and supply chains could limit any upside.

US onshore oil rigs have increased year-to-date through the end of April by 71 rigs, or 15%, and from one year ago there are 210 more oil rigs drilling, up 61%. Enverus, a consultancy and data provider, estimates that 90% of super-spec drilling rigs are currently active and that 70% of high-spec rigs are in the field. Additionally, hydraulic horsepower for frac crews is thought to be at 85-90% utilisation rates, with US lower 48 total capacity 30-40% below its 2019 peak. Recent data from Rystad Energy suggests that frac spreads have been steady since June 2021, averaging about 200 per month while drilling has increased – this is confirmed by the growth seen in drilled but uncompleted (DUC) well counts across multiple basins.



Recent commentary from publicly listed OFS executives and shale producers points to continued tightness ahead. Two companies stated that the earliest delivery for new, currently uncontracted frac crews would be 2023. Historically, this market structure would incentivise new capacity to be built, but the sector has been structurally underinvested in since the 2015 price crash and after years of lacklustre performance shareholders are pushing for higher returns. Companies are seeing the current environment as a way to bolster margins, repair balance sheets and return cash as opposed to investing in more capacity. As slack is taken out of the system, prices will continue to increase leading shale producers to think twice about adding margin dilutive rigs; and any stops and starts to the global supply chain could cause more hiccups in the oil patch.

In March, **Canadian** supply was relatively flat, according to data from the Alberta Energy Regulator and Canada-Newfoundland & Labrador Offshore Petroleum Board (C-NLOPB). Offshore production increased by 10 kb/d m-o-m for the second straight month, on higher volumes from both Hebron and Hibernia. Total Canadian oil output in April fell by 50 kb/d on reduced upgrader throughput and lower NGLs. Seasonal maintenance in the oil sands are

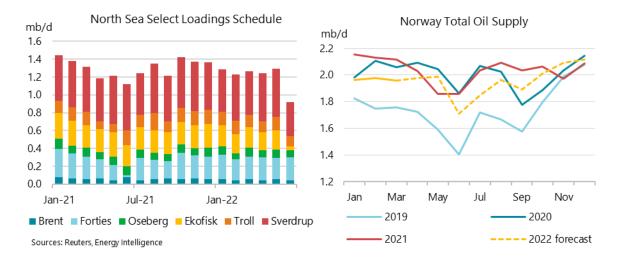


expected to continue through June. Growth will, however, come in the second half of the year, bringing full-year production to 5.8 mb/d, up 190 kb/d from 2021.

Brazilian supply edged up by 30 kb/d m-o-m in April to 3.1 mb/d, according to provisional daily data from the Agencia Nacional do Petroleo (ANP). This gain comes after an increase of 50 kb/d m-o-m in March. Brazil's 2022 output is expected to average 3.2 mb/d, up 140 kb/d from 2021. The Petrobras-operated Guanabara floating production storage and offloading (FPSO) vessel, the first of four planned FPSOs in the Mero development, saw first oil in April. The FPSO is expected to reach its 180 kb/d nameplate capacity by the end of the year. Additionally, the first two wells of an 18 well increased oil recovery project at Roncador started up five months ahead of schedule. These two wells are expected to produce 20 kb/d and reduce the carbon intensity of the field.

Argentinean supply increased in April by 10 kb/d m-o-m to 700 kb/d on continued strength of Neuquén LTO. Activity in Argentina's main shale region is up three-fold from one year ago and 4% from March. High prices and commissioning of more take-away capacity are projected to sustain growth rates in the region. **Ecuadorian** output was flat m-o-m in April, while **Colombian** volumes fell by 10 kb/d to 740 kb/d. Production in **Guyana** gained 50 kb/d to 180 kb/d as the Unity FPSO continues to ramp up. **Peruvian** supply fell in March by 20 kb/d due to flood damage on the Oleducto Norperuano (ONP) pipeline and social unrest around Block 95 in the Maranon Basin in the northern Amazon region. Both of these issues were reportedly resolved by mid-April.

North Sea loadings (as measured by BFOE plus Troll and Johan Sverdrup) are expected to average 1.15 mb/d in the second quarter, down 110 kb/d q-o-q on planned maintenance at Johan Sverdrup and fields in the Ekofisk area, with the majority of the decline expect in June and July. UK output was essentially flat in April at 910 kb/d, and is expected to remain largely unchanged on the year, averaging 900 kb/d – 20 kb/d higher than 2021 volumes. In concert with an announcement by BP to invest an incremental \$22.5 billion in the UK's energy system by the end of 2030, the UK's Prime Minister and Energy Minister both backed away from calls for a windfall tax on oil companies. Details of BP's incremental investment in the region are to be forthcoming, yet the company stated it will be used to help the country deliver on its dual ambitions of ensuring energy security and reaching its net zero target.



Data from the **Norwegian** Petroleum Directorate indicates that output in March was largely unchanged around 2 mb/d. April supply increased by only 20 kb/d. Maintenance at Johan Sverdrup and the Greater Ekofisk Area is expected to take 340 kb/d off the market in June and 200 kb/d in July. In September, maintenance work at Oseberg and the Sture oil terminal is estimated to reduce volumes by 160 kb/d. For the year as a whole, production is projected to average 2 mb/d, down 80 kb/d from 2021 levels, primarily due to the larger maintenance programme this year.

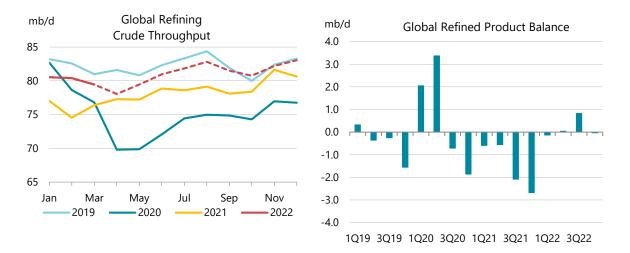
In non-OPEC+ Africa, production from **Ghana** is projected to fall by 50 kb/d in April as maintenance work is performed on the Jubilee field. Full-year output is expected to be flat y-o-y at 170 kb/d. Recoverable resources from TotalEnergies' Venus discovery offshore **Namibia** have been revised upwards, from 3 billion barrels of oil equivalent (boe) when first discovered in February 2022 to 13 billion boe, of which 10 billion barrels is oil. If these numbers are confirmed by appraisal work, this would be the largest ever deepwater field to be found. This and the neighbouring Graff oil discovery, owned by Shell, present strong opportunities for large volumes of oil to be delivered in the later part of this decade.

Total **Chinese** oil production rose by 30 kb/d to 4.3 mb/d in March, primarily on continued improvement in the Changqinq and Xinjiang provinces. Strong 1Q22 supply and PetroChina's comments during its recent earnings call have led us to revise Chinese full-year output upwards by 50 kb/d to 4.2 mb/d, up 170 kb/d annually.

Refining

Overview

Global refinery throughputs in April plunged to 78 mb/d, the lowest level since May 2021. Most of the 1.4 mb/d m-o-m decline came from China, where refiners cut back run rates in the wake of severe lockdown measures. US refining activity in April was also underwhelming, with operational issues and tight available capacity, leading to a counter-seasonal monthly fall. In addition, Russian throughputs fell further in April on weaker domestic demand and limited fuel oil and heavy feedstock export opportunities, while European and OECD Asian were in seasonal maintenance.



Seven consecutive quarters of stock draws have drained product storage across the globe to precariously low levels, especially in the emerging economies of Africa and Asia. Transport fuel shortages started to curtail daily mobility and economic activity for large swathes of the population in several African countries, Yemen and Sri Lanka. Jet fuel shortages have been reported across Africa and even in Mexico.

Demand growth and rapidly depleting inventories have led refinery margins to unprecedented levels across all regions and configurations. We expect a strong ramp-up in refining activity to fill the product supply gap. From the seasonal low in April to the peak in August, global throughputs are forecast to rise by 4.7 mb/d, helping restock depleted product inventories in 3Q22 for the first time in two years. The increase will come mostly from China, Europe and the US.

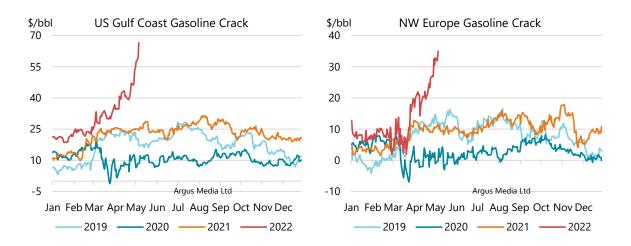
On balance, there is more downside risk to the refinery throughput forecast than upside potential. Depending on the severity of the EU sanctions package and the phase-in specifics, Russian product exports could continue at lower levels or stop altogether. US refiners may not be able to operate at the high utilisation rates assumed in our forecast. New capacity ramp-up in the Middle East and refinery restarts in Europe, Latin America and Asia could be further delayed. Crucially, the growth in $3O_{22}$ throughputs would require crude oil stock draws on the order of 1.5 mb/d. While the IEA collective and member country individual stock releases have made more than 230 mb of crude oil available to the market, upward pressure on prices may discourage refiner appetite.

	Global Refinery Crude Throughput ¹													
	(million barrels per day)													
	2019	2020	4Q21	2021	Feb-22	Mar-22	1Q22	Apr-22	May-22	Jun-22	2Q22	3Q22	4Q22	2022
Americas	19.2	16.6	18.2	17.8	18.3	18.5	18.4	18.4	19.1	19.4	19.0	19.1	18.6	18.8
Europe	12.2	10.7	11.5	11.0	11.2	10.9	11.1	11.2	11.0	11.7	11.3	11.8	11.7	11.5
Asia Oceania	6.8	5.9	6.0	5.8	6.3	6.0	6.2	5.7	5.5	5.4	5.5	6.1	6.1	6.0
Total OECD	38.1	33.2	35.7	34.5	35.8	35.5	35.7	35.3	35.6	36.4	35.8	37.0	36.4	36.2
FSU	6.8	6.4	6.8	6.7	6.7	6.1	6.6	5.6	5.2	5.2	5.3	5.3	5.4	5.6
Non-OECD Europe	0.5	0.4	0.4	0.4	0.4	0.4	0.5	0.4	0.4	0.5	0.4	0.5	0.5	0.5
China	13.4	13.8	14.1	14.2	14.1	13.8	14.0	13.1	13.8	14.2	13.7	14.5	14.7	14.2
Other Asia	10.3	9.3	9.9	9.5	10.3	10.1	10.2	10.1	10.6	10.6	10.4	10.7	10.7	10.5
Latin America	3.2	3.0	3.3	3.2	3.3	3.4	3.3	3.4	3.5	3.6	3.5	3.5	3.6	3.5
Middle East	7.8	7.1	8.0	7.6	7.7	8.1	7.9	8.2	8.4	8.6	8.4	8.6	8.8	8.4
Africa	2.0	1.9	1.9	1.8	1.9	1.9	1.9	1.8	1.9	1.9	1.9	1.9	1.9	1.9
Total Non-OECD	44.0	41.9	44.4	43.6	44.5	43.9	44.3	42.7	43.7	44.4	43.6	44.9	45.5	44.6
Total	82.1	75.1	80.1	78.1	80.3	79.3	80.0	78.0	79.3	80.9	79.4	82.0	81.9	80.8
Year-on-year change	-0.2	-7.1	4.2	3.0	5.9	3.1	4.1	0.8	2.2	2.1	1.7	3.4	1.8	2.8

¹ Preliminary and estimated runs based on capacity, known outages, economic runcuts and global demand forecast.

Product cracks and refinery margins

In April, spot crude prices fell by \$6-15/bbl, depending on the grade, but most product prices did not follow suit, resulting in extraordinarily high product cracks in all trading hubs. Russian crude seaborne crude oil exports increased by 260 kb/d m-o-m to 3.6 mb/d, their highest since April 2017 (see Box *Russian oil exports increase in April*), adding to the bearish factors for crude oil prices.

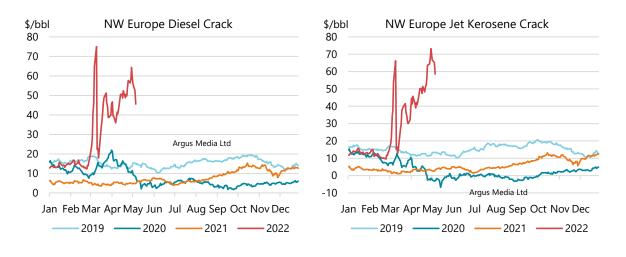


Gasoline cracks reached record daily and monthly average levels in all trading regions. US Gulf Coast cracks were up by \$10/bbl m-o-m to \$40/bbl. In Europe, which is a net exporter of gasoline, cracks more than doubled to \$21.40/bbl. Singapore gasoline cracks rose \$3/bbl to \$23.80/bbl. Naphtha cracks, meanwhile, plunged to -\$5/bbl in Singapore, leading to the first monthly average negative value since June last year. In Europe, naphtha cracks remained negative but halved their discount to crude oil to -\$2.80/bbl, as refinery maintenance and rejection of Russian origin product supported prices.

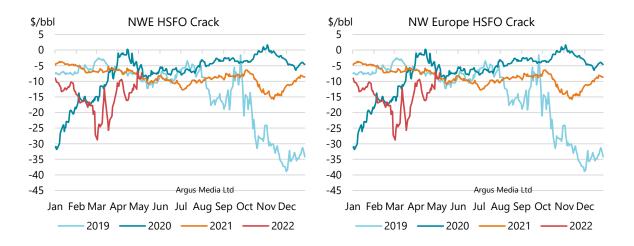
					Spot	Produc	Prices							
				(m	onthly an	d weekly a	verages,	\$/bbl)						ĺ
	Feb	Mar	Apr	Apr-Mar			Wee	k Endin	g		Feb	Mar	Apr	Chg
		mai	Λp.	Chg	%	08 Apr	15 Apr	22 Apr	29 Apr	06 May			•	Ū
Rotterdam, Barges I												ntial to N		
Gasoline EBOB oxy		127.41		-1.73	-1.4	123.50	122.65	127.37	128.74	138.48	8.54	8.66	21.43	12.77
Naphtha		113.24		-11.80	-10.4	100.71	102.67	102.84	99.74	100.63	-1.57	-5.51	-2.81	2.71
Jet/Kerosene	109.98			2.73	1.8	146.03	148.25	155.33	163.79	170.88	11.97	31.69	48.92	17.23
ULSD 10ppm	112.77	156.47	151.46	-5.01	-3.2	143.53	148.07	155.89	158.30	159.12	14.76	37.73	47.22	9.49
Gasoil 0.1%	110.26	151.41	145.48	-5.93	-3.9	136.59	141.16	149.41	154.58	156.71	12.25	32.66	41.23	8.57
VGO 2.0%		124.68		0.25	0.2	123.53	124.24	127.18	124.97	128.47	-0.18	5.93	20.68	14.75
Fuel Oil 0.5%	106.08	129.40	122.73	-6.68	-5.2	122.72	122.68	123.14	121.55	121.66	8.07	10.65	18.48	7.83
LSFO 1%	91.90	110.94	98.73	-12.21	-11.0	99.39	97.75	99.36	97.58	101.85	-6.11	-7.81	-5.52	2.30
HSFO 3.5%	81.00	97.98	91.93	-6.05	-6.2	93.04	90.75	91.73	90.97	97.51	-17.01	-20.77	-12.32	8.45
Mediterranean, FOB Cargoes Differential to Urals														
Premium Unl 10 ppm	108.01	128.55	126.02	-2.53	-2.0	124.17	122.30	127.73	129.55	138.84	13.07	35.96	53.59	17.63
Naphtha	93.90	110.29	97.78	-12.51	-11.3	98.20	98.29	98.04	96.16	97.11	-1.04	17.69	25.34	7.65
Jet Aviation fuel	108.03	148.12	150.30	2.18	1.5	144.29	144.62	151.24	161.09	168.48	13.09	55.53	77.86	22.33
ULSD 10ppm	110.31	153.21	147.98	-5.23	-3.4	139.67	144.51	152.53	155.28	155.44	15.37	60.61	75.54	14.93
Gasoil 0.1%	109.08	146.07	142.97	-3.10	-2.1	134.17	138.59	147.08	152.17	152.83	14.14	53.48	70.53	17.05
LSFO 1%	93.09	115.65	105.01	-10.64	-9.2	106.05	103.91	105.25	103.83	108.04	-1.85	23.06	32.57	9.52
HSFO 3.5%	78.87	95.64	89.21	-6.43	-6.7	90.26	87.30	88.98	88.66	94.96	-16.07	3.05	16.78	13.73
US Gulf, FOB Pipeline	e										Differer	ntial to W	/TI Hous	ton
Super Unleaded	116.98	140.78	143.25	2.47	1.8	136.21	143.85	145.53	148.68	163.08	23.75	30.52	40.32	9.80
Jet/Kerosene	112.50	145.78	156.86	11.08	7.6	147.59	148.87	161.93	168.05	177.84	19.27	35.52	53.93	18.41
ULSD 10ppm	118.06	151.09	160.12	9.03	6.0	148.65	152.38	164.26	175.78	179.74	24.83	40.84	57.20	16.36
Heating Oil	104.17	136.20	136.68	0.48	0.4	125.79	131.10	145.24	144.15	152.92	10.94	25.95	33.75	7.81
No. 6 3%*	80.13	93.44	89.41	-4.03	-4.3	86.78	88.45	91.25	91.16	93.70	-13.10	-16.81	-13.51	3.30
Singapore, FOB Carg	goes										Differer	tial to D	ubai	
Premium Unleaded	110.72	131.07	126.73	-4.34	-3.3	123.51	122.85	131.49	129.54	141.27	18.25	20.58	23.82	3.24
Naphtha	95.75	111.42	97.75	-13.67	-12.3	97.69	99.21	100.15	94.41	95.43	3.28	0.93	-5.16	-6.09
Jet/Kerosene	106.17	134.32	134.35	0.04	0.0	131.41	130.00	138.71	136.74	149.00	13.69	23.83	31.45	7.62
Gasoil 0.001%	110.70	142.57	148.86	6.29	4.4	142.58	146.30	155.74	152.33	162.83	18.22	32.08	45.95	13.87
Fuel Oil 0.5%		134.07		-8.91	-6.6	124.36	125.04	128.61	122.81	129.65	18.76	23.58	22.26	-1.33
HSFO 180 CST	82.63	103.13	110.91	7.78	7.5	110.19	111.24	111.61	111.10	114.87	-9.85	-7.36	8.00	15.36
HSFO 380 CST 4%	81.08	99.20	104.14	4.94	5.0	103.84	102.36	106.03	103.98	106.85	-11.40	-11.29	1.23	12.52

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* Waterborne

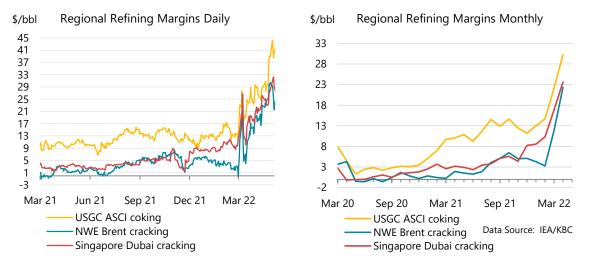


In Northwest Europe, diesel cracks resumed their upward march, gaining \$10/bbl m-o-m to reach a record-high of \$47.20/bbl in April. Premiums for guaranteed non-Russian origin product reportedly added another \$4/bbl to the quoted prices. Crucially, kerosene cracks topped diesel by \$1.70/bbl, their first such premium since October 2019. European diesel shortages lifted all other regional quotes to record levels. In fact, US Gulf Coast diesel and kerosene prices were above European levels, reflecting the strength of the pull from Latin American importers, bidding up US barrels against the European contenders. The disappointing US refining performance in April meant that the 150 kb/d m-o-m increase in US refined product exports in April came from a



500 kb/d stock draw that pushed US distillate fuel inventories to their lowest levels since March 2005.

Fuel oil cracks were helped by lower crude prices in April and tighter markets as US buyers (the principal importer of Russian fuel) sought alternative molecules following the country's embargo on Russian oil. Northwest Europe high sulphur fuel oil (HSFO) cracks strengthened by \$8/bbl to -\$12.30/bbl, an unusually narrow ratio to crude prices. In Singapore, HSFO cracks turned positive on a monthly average basis, which reflected the impact of the recent bunker fuel contamination.



All of our refinery margin indicators were in double-digit territory in April for the first time, regardless of region and complexity. The current almost universal product shortage, low inventories and refinery capacity bottlenecks have led to inelastic short-term supply, pushing cracks for almost all products to extraordinarily high levels. Refiners running Urals are enjoying even more impressive windfalls. Our indicative margin for a Northwest Europe cracking refinery on Urals averaged \$55/bbl in April. Polish refiner Lotos disclosed their April margin at \$59/bbl, which they calculate based on Urals quotes. Hungary's Mol, which is supplied Urals by the Druzhba pipeline, withdrew the publication of its monthly margin indicator for April.

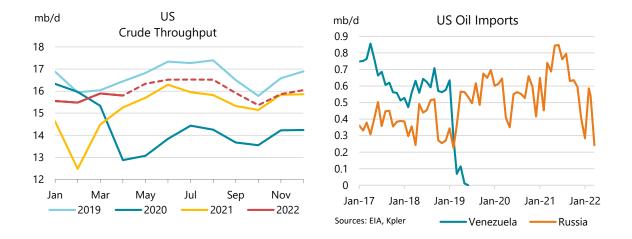
IEA/KBC Global Indicator Refining Margins ¹											
(\$/bbl)											
	M onthly A verage					Change	A verage for week ending:				
	Jan 22	Feb 22	Mar 22	Apr 22		Apr-Mar	08 Apr	15 Apr	22 Apr	29 Apr	06 May
NW Europe											
Brent (Cracking)	4.29	3.28	11.84	22.33	↑	10.50	18.48	19.51	23.39	28.27	25.96
Urals (Cracking)	4.14	7.04	38.78	55.01	↑	16.23	51.63	52.69	56.13	60.54	58.02
Brent (Hydroskimming)	1.29	-0.37	6.26	14.30	↑	8.05	11.48	12.01	15.06	18.81	15.65
Urals (Hydroskimming)	-0.84	0.76	29.76	45.32	↑	15.56	43.24	43.40	45.76	49.55	47.06
Mediterranean											
Es Sider (Cracking)	5.66	4.21	15.62	24.45	♠	8.83	20.02	21.18	25.83	30.81	27.46
Urals (Cracking)	4.21	5.16	38.66	55.11	↑	16.44	50.80	52.29	56.52	61.59	58.13
Es Sider (Hydroskimming)	2.95	0.79	9.46	16.61	↑	7.15	13.77	13.84	17.38	21.25	17.84
Urals (Hydroskimming)	-2.05	-2.40	26.15	41.65	↑	15.50	39.35	39.22	42.12	46.20	43.35
US Gulf Coast											
Mars (Cracking)	7.84	8.11	11.76	16.98	↑	5.22	15.95	14.67	15.39	20.87	24.77
50/50 HLS/LLS (Coking)	15.17	17.29	27.01	36.25	↑	9.24	32.11	32.47	36.40	43.74	48.46
50/50 Maya/Mars (Coking)	11.43	12.33	18.13	25.71	↑	7.58	22.23	21.93	25.32	32.83	36.79
ASCI (Coking)	13.01	14.73	22.13	30.24	↑	8.11	27.56	26.71	29.25	36.62	41.08
USMidwest											
30/70 WCS/Bakken (Cracking	8.21	9.14	16.10	24.20	↑	8.10	19.53	20.92	25.20	31.15	33.90
Bakken (Cracking)	9.29	11.05	20.22	30.39	↑	10.17	24.71	26.84	31.73	38.42	41.79
WTI (Coking)	10.74	11.89	22.74	34.23	↑	11.49	28.74	30.90	35.19	42.23	46.32
30/70 WCS/Bakken (Coking)	10.49	12.22	21.75	31.79	↑	10.04	26.02	28.08	33.13	40.05	43.62
Singapore											
Dubai (Hydroskimming)	-1.31	-1.47	2.11	11.86	↑	9.74	10.81	11.67	11.54	13.58	16.20
Tapis (Hydroskimming)	1.02	-0.76	2.82	15.45	↑	12.62	13.55	14.00	18.15	17.94	18.01
Dubai (Hydrocracking)	8.56	10.35	16.87	23.58	↑	6.72	21.41	23.46	24.37	25.92	31.03
Tapis (Hydrocracking)	0.95	-1.02	3.12	17.80	♠	14.68	15.21	15.72	20.92	21.37	22.01

¹ Global Indicator Refining M argins are calculated for various complexity configurations, each optimised for processing the specific crude(s) in a specific refining centre. M argins include energy cost, but exclude other variable costs, depreciation and amortisation. Consequently, reported margins should be taken as an indication, or proxy, of changes in profitability for a given refining centre. No attempt is made to model or otherwise comment upon the relative economics of specific refineries running individual crude slates and producing custom product sales, nor are these calculations intended to infer the marginal values of crude for pricing purposes.

Sources: IEA, KBC Advanced Technologies (KBC).

Regional refining developments

US throughputs in April fell 90 kb/d m-o-m to 15.7 mb/d, in contrast with the seasonal trend of second-quarter increases. The decline was due to outages on the West Coast, with the Gulf Coast and Midcontinent regions largely flat m-o-m, despite extremely attractive refinery margins. Several refineries experienced unplanned outages, and the available capacity in the system was too tight to respond. Utilisation rates were above 89% in March and April. US buyers, mostly refiners and blenders, are phasing out purchases of Russian oil, primarily refinery feedstocks. They did not lift any Russian barrels in April, but some 160 kb/d landed during that month, from earlier purchases, down from about 600 kb/d on average in 2021. US refiners had accelerated purchases of Russian oil after the introduction of sanctions on Venezuela in 2019. In their first-quarter earnings calls several US refiners noted possible difficulties in securing alternatives for heavy feedstocks.



US refinery throughputs are expected to rise by 680 kb/d in 3Q22 compared to 1Q22, but this may not increase available export barrels as domestic demand for main refined products – gasoline, kerosene and diesel – is set to gain seasonally by almost as much. For this throughput increase we assume record high utilisation rates, but the ability of plants to resist operational stress and the hurricane season at the end of summer may yet affect our forecast. Currently, US refiners are the most flexible in terms of yield switches between gasoline, kerosene and diesel. The output for the first two products is largely driven by domestic demand, while the call on US diesel exports will skyrocket as Europe seeks to replace Russian-origin product. US refiners have increased kerosene output in recent months, although yields are yet to reach their usual double-digit levels. Competition between the three products for available molecules will be intense, leading to persistently high and volatile cracks.

The government of the **US Virgin Islands** asked President Biden to help restart the 200 kb/d refinery formerly operated by Limetree Bay. The plant was shut by the US Environmental Protection Agency last year after just a few months of operations, due to pollution concerns. When it operated, it exported mostly low sulphur fuel oil for the Caribbean bunkers market.

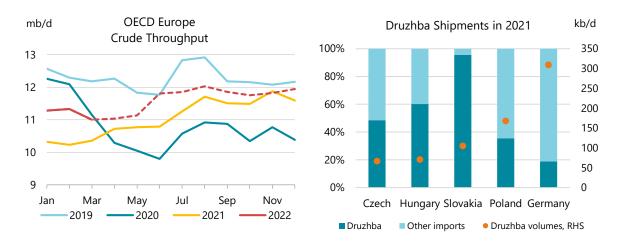
Mexican throughputs in March fell to 825 kb/d. April runs likely declined further due to a fire at the Salina Cruz refinery, which shut the plant for several days. The government plans to officially launch the newly built 340 kb/d Olmeca refinery in July but the work is not yet completed. The refinery may only run in a test mode this year, without producing on-specification fuels.

Refinery throughputs in Europe fell by 330 kb/d m-o-m in March, to just 10.9 mb/d, the lowest level since June 2021. Preliminary data from *Euroilstock* indicate that runs increased by around 350 kb/d in April. TotalEnergies announced that the 220 kb/d Donges refinery in **France** will restart this month, following a 17-month shutdown. In **Germany**, the future of the 230 kb/d Schwedt refinery is increasingly uncertain. In January, Rosneft agreed with Shell to buy the latter's 37.5% stake, bringing its total share to 92%. The German government has suspended the approval of this deal and has been discussing the nationalisation of Rosneft's share. Shell said in early May it will continue as a minority shareholder in the plant, but will eventually seek to sell its stake.

This refinery, along with TotalEnergies's Leuna, receives most of its crude from the Druzhba pipeline, making Germany the largest offtaker, with a 43% share. At the same time, Germany has the lowest overall reliance on the pipeline compared to other customers, with more than 80% of its crude imported through other routes. Both refineries are connected to ports in Germany and Poland. However, the capacity of the line to Rostock in Germany, which is not in regular use,

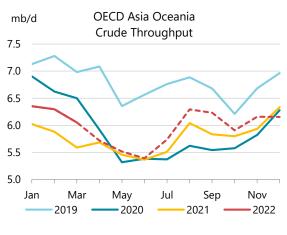
combined with the available capacity of the pipeline to the port of Gdansk in Poland, could cover only 60% of these two refineries' feedstock requirements.

With the EU embargo on Russian imports currently being discussed, attention is focused on Druzhba flows that mostly serve landlocked refineries in Eastern and Central Europe. Poland is the second largest offtaker, accounting for 23% of flows. In 2021, the country sourced 35% of its crude through the pipeline. Polish refiners started switching to alternative suppliers even before the Russian invasion into Ukraine, by cutting seaborne imports first, where Russian origin barrels accounted for almost as much as Druzhba deliveries in 2021.



Due to their landlocked situation, countries on the southern branch of the pipeline are in a less advantaged position in terms of alternative supply routes, even as together they only import just a third of the total. Slovakia is the largest offtaker on the southern branch, with 105 kb/d, taking essentially all of its crude imports via the Druzhba pipeline. Hungary and the Czech Republic take around 70 kb/d each, accounting for 50% and 60% of their crude oil imports respectively. In principle, the Adria pipeline from the Croatian port of Omisalj can offer an alternative to Druzhba for both refineries in Slovakia and Hungary, even as the route has yet to be tested in full capacity mode. For the Czech Republic, one option is a capacity upgrade of the Transalpine (TAL) pipeline that starts at the port of Trieste in Italy. Another possibility is Germany's Miro refinery in Karlsruhe switching some supply to the SPSE pipeline from the French port of Fos, freeing up TAL capacity for Czech refineries. The 450 kb/d SPSE pipeline serves the 110 kb/d Feyzin refinery in France and the 70 kb/d Cressier refinery in Switzerland, with the mainline section to Germany currently idle.

In OECD Asia, refinery intake continues to decline seasonally from winter peak run rates. In March, throughputs fell 245 kb/d m-o-m. At the end of April, Japanese refiner Eneos restarted the Chiba and Sendai refineries shut that were following mid-March а powerful earthquake. The government increased the upper limit of subsidies available to refiners and importers to an equivalent of \$42/bbl and included jet fuel in the consumer basket of oil products covered



by the scheme. Japan and **Korea** have not announced embargoes on Russian oil yet but Japan is considering a gradual phase-out. Both countries imported close to normal levels of Russian barrels in April but their refiners have announced plans to reduce future purchases. Korean refiners are looking for alternatives to Russian naphtha and light crude grades Sokol and ESPO. **New Zealand's** sole refinery, the 130 kb/d Marsden Point plant, did not import any crude in April and is likely running down inventories in preparation for a permanent shutdown this summer.

Refinery Crude Throughput and Utilisation in OECD Countries (million barrels per day)											
	(million barreis per day) Change from							Utilisation rate			
	Oct 21	Nov 21	Dec 21	Jan 22	Feb 22	Mar 22	Feb 22	Mar 21	Mar 22	Mar 21	
US ¹	15.05	15.73	15.76	15.45	15.38	15.79	0.41	1.41	90%	81%	
Canada	1.63	1.83	1.82	1.80	1.84	1.72	-0.12	0.02	90%	84%	
Chile	0.18	0.14	0.19	0.19	0.21	0.21	0.00	0.01	92%	84%	
Mexico	0.74	0.72	0.76	0.79	0.85	0.83	-0.03	0.00	50%	87%	
OECD Americas ¹	17.60	18.43	18.52	18.23	18.28	18.54	0.26	1.36	87%	79%	
France	0.72	0.79	0.78	0.80	0.78	0.80	0.01	0.19	70%	54%	
Germany	1.90	1.93	1.88	1.71	1.82	1.72	-0.10	0.18	85%	76%	
Italy	1.38	1.39	1.25	1.13	1.11	1.23	0.12	0.06	71%	68%	
Netherlands	1.13	1.05	0.95	0.96	0.90	0.94	0.04	-0.18	78%	93%	
Spain	1.12	1.20	1.23	1.23	1.22	1.17	-0.04	0.11	83%	75%	
United Kingdom	0.91	1.04	1.03	1.04	1.02	1.05	0.03	0.35	87%	59%	
Other OECD Europe ²	4.23	4.38	4.37	4.30	4.38	4.00	-0.39	-0.05	82%	82%	
OECD Europe	11.39	11.78	11.49	11.18	11.23	10.90	-0.33	0.64	80%	74%	
Japan	2.50	2.62	2.93	2.85	2.82	2.73	-0.10	0.28	79%	71%	
South Korea	2.72	2.71	2.81	2.91	2.87	2.78	-0.09	0.25	79%	72%	
Other Asia Oceania ³	0.56	0.58	0.58	0.58	0.59	0.54	-0.05	-0.07	83%	70%	
OECD Asia Oceania	5.79	5.92	6.32	6.34	6.29	6.04	-0.24	0.46	79%	71%	
OECD Total	34.78	36.12	36.33	35.76	35.80	35.48	-0.32	2.47	83%	76%	

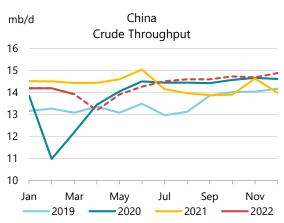
1 US includes US50, OECD Americas include Chile and US territories

2 Includes Lithuania

3 Includes Israel

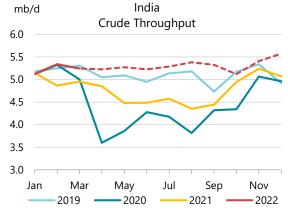
Chinese crude runs declined 270 kb/d m-o-m in March to 13.8 mb/d and were down 500 kb/d y-o-y. April throughputs are estimated to have fallen further, likely to their lowest level since March 2020. The peak impact from Covid lockdowns is expected in 2Q22, with demand

recovering to year-earlier levels in the second half of 2022. We have revised down our forecasts for 2Q22 by 500 kb/d and 3Q22 by 200 kb/d, resulting in a small overall decline of 25 kb/d in 2022, which would be the first since 1998. Apart from domestic demand issues, the potential cut of product exports is also weighing on refinery activity prospects. The Chinese government is reportedly planning to phase out transport fuel exports already in 2023, earlier than the previously planned 2025 deadline, in an effort to accelerate transition to net zero.

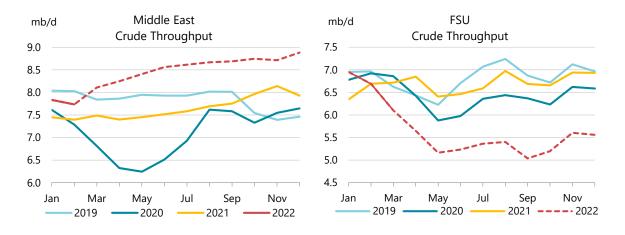


Refinery throughputs in **India** fell slightly to 5.2 mb/d in March from the record levels of February. Indian refiners loaded about 770 kb/d of Russian crude in April, compared to less than 50 kb/d imported on average in 2021. We forecast Indian refining activity up by 510 kb/d this year, which results in a similar increase in crude oil import requirements. The 300 kb/d Pengerang refinery in **Malaysia** restarted this month, according to news reports.

Saudi throughputs were down 270 kb/d in February on refinery maintenance, while



Iraq reported the highest runs since November 2019, at 630 kb/d. The **Kuwait** Integrated Petroleum Industries Company said the trial run of one of Al-Zour's three 205 kb/d crude distillation units is expected to start in coming weeks. We have revised UAE refinery throughputs higher based on newly reported 2020 annual statistics, moving the baseline up by 170 kb/d.



According to preliminary data, **Russian** refinery throughputs in April fell 310 kb/d to 4.9 mb/d, the lowest since 2011, on reduced exports and domestic demand. The cumulative decline from February is now at almost 1 mb/d and is expected to deepen further to 1.4 mb/d as more sanctions are put in place. Most of the decline so far has come from reduced product exports as a result of the US and UK sanctions (see Box *Russian oil exports increase in April*). **Belarus** has reportedly started exporting fuel to Russia, having lost access to the Ukrainian market.

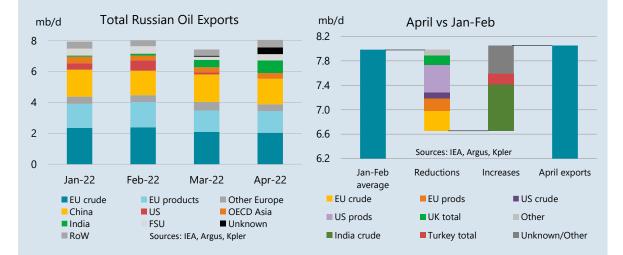
Box 2. Russian oil exports increase in April

Despite the sanctions currently in place, and talk of more to come, total Russian oil exports increased by 620 kb/d in April, to 8.1 mb/d, back to the January-February average. Nevertheless, the reorientation of trade flows is already taking shape, with a notable shift of volumes from Europe and the US to India. The US was the second country to declare an embargo on Russian oil imports, with no cargoes loaded in Russia in April for delivery to the US. Shipments to the UK, also sanctioned, all but stopped, too. Most product volumes previously going to the US and the UK have yet to find

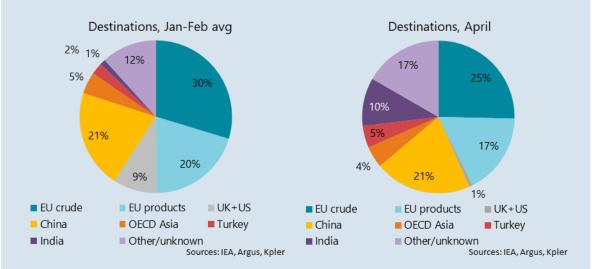
Refining

alternative markets, leading to lower refinery throughputs. This has resulted in higher crude oil exports in April despite production cuts.

Our preliminary assessment of Russian oil trade is primarily based *Kpler* tanker tracking data. We aggregate loadings by seller and by port to distinguish between Russian and non-Russian origin barrels, as Russian Black and Baltic Sea ports also ship Central Asian and Caspian crude and products for exports. For overland flows we assumed no change in Druzhba deliveries, based on preliminary reports; a 40% reduction in rail exports to the EU countries; a monthly increase in crude deliveries to Belarus and no change in deliveries to China.



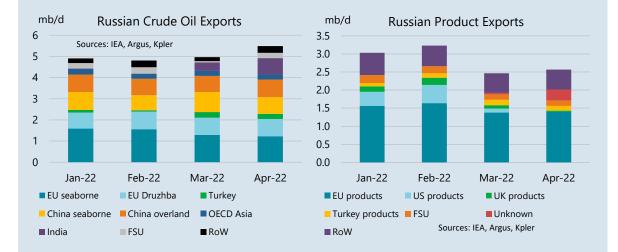
Total Russian oil exports in April increased by 620 kb/d m-o-m to 8.1 mb/d, largely in line with the January-February average. Reductions in shipments to the EU (-535 kb/d), US (-545 kb/d) and the UK (-160 kb/d) were primarily offset by increases to India (+730 kb/d) and Turkey (+180 kb/d).



The EU remained the largest market for Russian oil exports in April, with 3.4 mb/d, or 43%. Its share, however, was down from 50% at the start of the year, with volumes falling by 535 kb/d. The US and the UK together accounted for 9% of Russian exports earlier in the year, but their share went to zero in April. These falls were offset by increased loadings to India (+730 kb/d), with its market share up

from zero to 10%, and Turkey (+180 kb/d). Some 430 kb/d, or 7% of April seaborne volumes were missing destination information. This was mostly the case for fuel oil and naphtha cargoes, likely implying ship-to-ship transfers for subsequent exports to Asia.

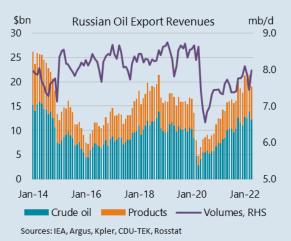
Crude oil exports increased by 520 kb/d m-o-m in April and 630 kb/d versus the Jan-Feb average. Exports to the EU fell by 65 kb/d m-o-m, and by a total of 330 kb/d compared to the pre-war average. The EU's share in total crude exports went down from 49% in January-February to 37% in April, while India's share increased from nothing to 14%. China's share was marginally down from 33% to 30%.



For products, volumes backed out of the US, EU and the UK (450 kb/d, 205 kb/d and 140 kb/d, respectively) were only partly offset by an increase in undisclosed destinations (+300 kb/d). Diesel

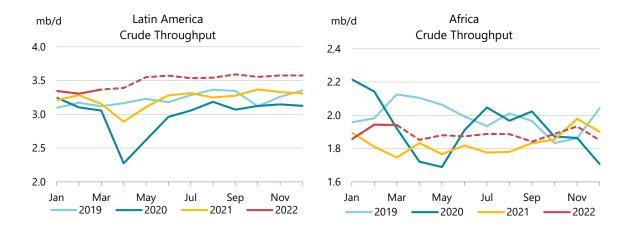
exports fell by 60 kb/d m-0-m to 815 kb/d, and by 155 kb/d compared to the pre-war average. Volumes to the EU fell by just 43 kb/d compared to January-February average, but its share in Russian diesel offtake increased from 62% to 69%.

Despite higher exports, estimated export revenues fell m-o-m by \$2.3 bn, due to lower prices. We assume a 25% discount to European products assessments for the purpose of these calculations. However, total oil export revenues were up by more than 50% y-o-y for the first



four months of the year compared to the same period last year.

Refinery runs increased in March in **Brazil** and **Argentina**. In **Peru**, Petroperu started trial runs at its expanded 95 kb/d Talara site in mid-April, after a two-year closure. There has been no news concerning the restart of Repsol's 120 kb/d La Pampilla refinery that was ordered to shut after an oil spill in January at the jetty. Repsol had previously said it was going to finish cleaning operations by end-March. **Jamaica**'s sole refinery, the 35 kb/d Petrojam facility, was forced to shut in April due to a fire.



African throughput in April was estimated at 1.9 mb/d, 90 kb/d higher m-o-m. There has been a flurry of announcements regarding work progress of several greenfield or expansion projects. **Algeria**'s Sonatrach said it is preparing to start a new 60 kb/d refinery in Hassi Massoud this year. The **Angolan** government reported that the equipment for the 30 kb/d first phase of the Cabinda refinery is ready to be shipped from Houston. **Nigeria** expects to complete the first phase of the 210 kb/d Port Harcourt refinery rehabilitation next year and bring online a 60 kb/d train. Meanwhile, an explosion at one of the country's numerous illegal "bush" refineries reportedly killed 100 people in April. The country's 650 kb/d Lekki refinery is expected to start up in early 2023. The **Zambian** government reiterated their plan to shut down the country's sole 40 kb/d refinery by the end of this year and convert the crude oil pipeline from a Tanzanian port to carry imported refined products. The refinery has likely been idle since 2Q20, based on data for cargo discharges at the port of Dar Es Salam.

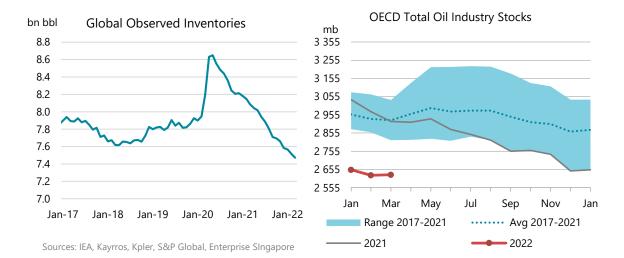
12 May 2022

Stocks

Overview

Global observed oil inventories slumped by a further 45 mb during March, extending the declines ongoing since June 2020. Over the past 22 months, a total of 1.2 billion barrels have been drawn from storage tanks, which now stand at their lowest levels since at least 2016 when our data series start. Approximately 60% of the decline has come from OECD countries, 16% from non-OECD crude stocks mainly derived from satellite observations, and the remainder from oil on the water. Scant information is available for product stocks, crude held in underground caverns or fixed roof tanks in non-OECD countries. Product holdings in China rose in March after stringent lockdowns slashed domestic consumption. Russian crude and product stocks also increased sharply as sellers struggled to place cargoes following the Russian invasion of Ukraine.

In the OECD, a first round of emergency stock releases during March halted the precipitous decline in industry inventories. According to preliminary data, 24.7 mb (800 kb/d) of government stocks were made available to the market, including 17.6 mb of crude oil and 7.1 mb of products. (See *IEA oil stock supplies are making their way to the market*). Total OECD industry stocks marginally rose by 3 mb in March, but remained 299.4 mb below the five-year average and at their lowest since 2014. At 2 626 mb, OECD industry stocks covered 57.7 days of forward demand, 0.3 days below end-February and 8.4 days lower than the five-year average.



While OECD industry stocks in March were little changed m-o-m, crude oil inventories rose by 22.8 mb to 993 mb in line with the seasonal trend. Europe accounted for the largest gain at 16.4 mb. Crude stocks in OECD Asia Oceania rose counter-seasonally by 6.4 mb. By contrast, OECD American crude stocks held steady compared with normal builds of 15.1 mb in March.

Total OECD product stocks drew by 25.5 mb m-o-m, on par with the five-year average. Of the drawdown, gasoline and middle distillates decreased by 12.1 mb and 10.2 mb, respectively. OECD Americas stocks fell by 10.3 mb, led by gasoline. OECD Europe marked the largest decline at 11 mb, of which 3.5 mb in middle distillates and 3 mb of gasoline. OECD Asia Oceania product stocks also fell by 4.2 mb. Total OECD middle distillates stocks fell to 486.2 mb, and reached their lowest levels since April 2008.

Preliminary data for April show that OECD industry inventories rose by 5.3 mb. Crude stocks were up by 7.9 mb while products fell a further 5.2 mb. According to EIA data, US crude stocks gained 3.7 mb and other refined product stocks increased by 17.8 mb while gasoline and middle distillates slumped by 8.5 mb and 8.6 mb, respectively. Inventories in Europe decreased by 4.1 mb, led by an 11.5 mb drop in middle distillates, according to *Euroilstock* data. Japanese industry stocks increased in crude oil and feedstocks by 3.8 mb while other petroleum product stocks rose marginally, by 2.2 mb in total, data from the Petroleum Association of Japan show.

In addition, *Kayrros* data show crude oil stocks in non-OECD countries in April rose by 19.9 mb, on the back of a 21 mb build in China. *Kpler* data show oil on water surging by 41.9 mb in April, with +17.9 mb crude oil and +24 mb oil products.

Preli	iminar	y OECD			ck Chang		arch 20	22 anc	l First Qu	uarter 2	2022	
			Ma	arch 202	2 (prelimina	ry)				First Qua	arter 2022	
		(million	barrels)		(million bar	rels per day	/)	()	million bar	rels per day)
	Am	Europe	As.Ocean	Total	Am	Europe	As.Ocean	Total	Am	Europe	As.Ocean	Total
Crude Oil	0.0	16.4	6.4	22.8	0.0	0.5	0.2	0.7	-0.3	0.3	0.1	0.0
Gasoline	-8.4	-3.0	-0.7	-12.1	-0.3	-0.1	0.0	-0.4	0.1	0.0	0.0	0.2
Middle Distillates	-5.2	-3.5	-1.5	-10.2	-0.2	-0.1	0.0	-0.3	-0.1	0.0	-0.1	-0.2
Residual Fuel Oil	1.8	-1.2	-2.4	-1.8	0.1	0.0	-0.1	-0.1	0.1	0.0	0.0	0.1
Other Products	1.5	-3.4	0.5	-1.4	0.0	-0.1	0.0	0.0	-0.4	0.0	0.0	-0.4
Total Products	-10.3	-11.0	-4.2	-25.5	-0.3	-0.4	-0.1	-0.8	-0.3	0.0	0.0	-0.4
Other Oils ¹	3.6	3.7	-1.7	5.7	0.1	0.1	-0.1	0.2	0.1	0.1	-0.1	0.1
Total Oil	-6.7	9.1	0.6	3.0	-0.2	0.3	0.0	0.1	-0.5	0.4	-0.1	-0.2

¹ Other oils includes NGLs, feedstocks and other hydrocarbons.

OECD stock data for February have been revised up by 12.1 mb since last month's *Report*, including 3. 4 mb of crude and 8.7 mb of products. The largest adjustment came from Europe, where crude oil stocks were revised 12 mb higher. OECD Asia Oceania crude inventories were also adjusted up, by 2 mb, while a 10.6 mb decrease in OECD Americas provided a partial offset. There were also upward revisions for product stocks in OECD Americas and OECD Asia Oceania, by 5.9 mb and 3.2 mb, respectively.

OECD In	dustry S	tock Re		versus Ap n barrels)	oril 2022	Oil Marl	ket Repo	ort
	Ame	ricas	Eur	оре	Asia O	ceania	OE	CD
	Jan-22	Feb-22	Jan-22	Feb-22	Jan-22	Feb-22	Jan-22	Feb-22
Crude Oil	-1.2	-10.6	-2.1	12.0	0.0	2.0	-3.3	3.4
Gasoline	-0.2	2.7	-0.1	-0.6	0.0	1.8	-0.3	3.9
Middle Distillates	0.0	2.4	2.5	-1.5	0.0	1.1	2.5	1.9
Residual Fuel Oil	0.0	0.2	0.7	2.0	0.0	0.2	0.7	2.5
Other Products	0.0	0.6	0.7	-0.2	0.0	0.1	0.7	0.5
Total Products	-0.2	5.9	3.7	-0.4	0.0	3.2	3.5	8.7
Other Oils ¹	0.0	-1.1	-0.1	1.3	0.0	-0.2	-0.1	0.0
Total Oil	-1.4	-5.9	1.6	13.0	0.0	4.9	0.1	12.1

¹ Other oils includes NGLs, feedstocks and other hydrocarbons.

Implied balance

The global supply and demand balance shows an implied stock build of 790 kb/d in March, while the total observed stock change was -1.47 mb/d based on available data. There is 2.26 mb/d of oil that is not accounted for in the balance, including some product inventory builds in non-OECD countries, which are poorly covered by available data. Most notably, oil product stocks in China

likely rose sharply following stringent Covid lockdowns. Hefty crude and product stock builds in

Russia following its invasion of Ukraine at the end of February are also not fully captured by the data. In March, OECD industry crude oil stocks, including NGLs, rose by 920 kb/d and product stocks dropped by 820 mb/d. In addition, OECD government stocks fell by 800 kb/d. Non-OECD crude inventories drew by 220 kb/d, according to satellite data from *Kayrros*. Crude oil on the water, including floating storage, fell by a large 1.3 mb/d, while products swelled by 880 kb/d, according to data from *Kpler*. In 1Q22, the global balance data show a stock draw of 350 kb/d, 2.32 mb/d less than the decline in 4Q21(2.67 mb/d).

Global	Oil Ba	lance a	nd Obs	erved	Stock C	hange	s (mb/c	i)			
	2020	1Q21	2Q21	3Q21	4Q21	2021	Jan-22	Feb-22	Mar-22	1Q22	Apr-22
Global oil balance	1.86	-1.96	-2.16	-2.39	-2.67	-2.30	0.34	-2.38	0.79	-0.35	1.31
Observed stock changes											
OECD total stocks	0.43	-1.29	-0.72	-1.42	-1.50	-1.23	-0.03	-1.52	-0.70	-0.72	-0.33
Non-OECD crude stocks*	0.34	0.40	-0.39	-0.58	-1.00	-0.40	1.41	-0.63	-0.22	0.21	0.66
Selected non-OECD product stocks**	0.05	0.13	-0.06	-0.43	-0.16	-0.13	0.52	-0.21	-0.12	0.07	-0.07
Oil on water	0.00	-0.52	-0.49	-0.34	1.11	-0.06	-2.17	0.50	-0.42	-0.74	
Total observed stock changes	0.82	-1.28	-1.66	-2.76	-1.54	-1.81	-0.27	-1.86	-1.47	-1.18	
Unaccounted for balance	1.04	-0.68	-0.50	0.37	-1.13	-0.48	0.61	-0.52	2.26	0.87	

*Crude stock change data from Kayrros. Data are available for selected countries and include only, and not all, above-ground storage.

** JODI data adjusted for monthly gaps in reporting, latest data for Jan 2021, plus Fujairah and Singapore inventories.

Sources: IEA, EIA, PAJ, Euroilstock, Kayrros, JODI, Kpler, FEDCom/S&P Global Platts, Enterprise Singapore.

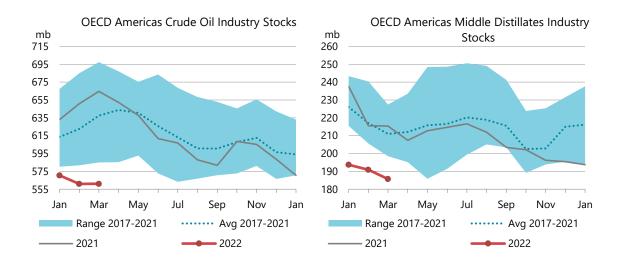
Recent OECD industry stock changes

OECD Americas

Industry stocks in OECD Americas were down by 6.7 mb in March, compared with a seasonal increase of 9.4 mb. Crude stocks held steady when they usually build by 15.1 mb. The United States released 14 mb of strategic petroleum reserves through mixed schemes of exchange, mandatory sale and emergency drawdown. By end-month, regional industry crude stocks stood at 561 mb, 76.5 mb below the five-year average.

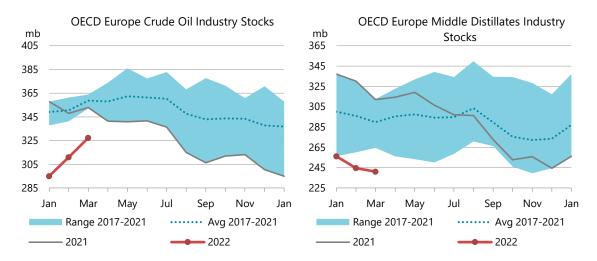
Product stocks fell by 10.3 mb, marginally larger than the average drop of 7.8 mb. Gasoline drove the decline, falling by 8.4 mb, followed by middle distillates at -5.2 mb. Middle distillates stocks dropped to 185.7 mb, the lowest level since April 2008. Fuel oil and other products increased by 1.8 mb and 1.5 mb, respectively, in line with seasonal trends.

Weekly data from the US Energy Information Administration (EIA) show total stocks rose by 3.3 mb in April. Crude gained 3.7 mb, when they typically build by 10.4 mb. Other refined products built by 17.8 mb, much larger than the five-year average. Gasoline and middle distillates drew by a further 8.5 mb and 8.6 mb, respectively, accelerated by higher exports. Middle distillates exports rose to 1.9 mb/d in the second week of April, the highest since April 2019, reflecting strong demand from buyers abroad looking for alternative sources to Russian supplies.



OECD Europe

OECD industry stocks in Europe rose by 9.1 mb in March when they normally decline by 1.4 mb. Crude stock builds of 16.4 mb led the way, as in February, reducing the gap with the five-year average to 31.4 mb.



Product stocks fell by 11 mb, in line with the normal trend, led by a 3.5 mb draw in middle distillates. Additionally, France and Germany released 5.2 mb and 1.2 mb of middle distillates from their strategic reserves, respectively. Fuel oil, gasoline and other products also fell, by 1.2 mb, 3 mb and 3.4 mb, respectively. Refinery runs in the region eased by 330 kb/d m-o-m, contributing to crude stock builds along with the draws in products.

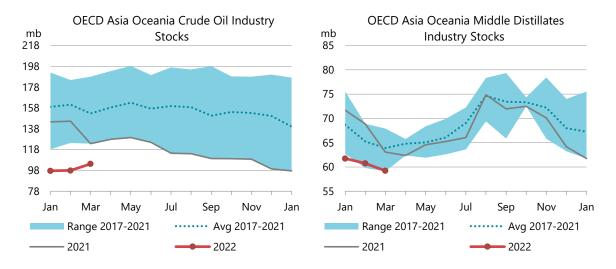
Preliminary data from *Euroilstock* show total oil stocks decreased by 4.1 mb in April. Crude oil inventories rose again by 3.6 mb, mainly in France (+4.4 mb), while products fell by 7.8 mb. Middle distillate stocks plunged by a steep 11.5 mb. Following a sharp build in March, oil stocks in Italy declined by 15 mb according to the latest data. Gasoline, fuel oil and naphtha increased by 2.1 mb, 0.5 mb and 1.1 mb, respectively.

12 May 2022

OECD Asia Oceania

Industry stocks in OECD Asia Oceania increased counter-seasonally by a mere o.6 mb in March. At 317.7 mb, regional stocks were 57.6 mb below the five-year average. Crude oil inventories account for 80% of the deficit, although they built by 6.4 mb in March when they normally decrease by 8.5 mb. Korean government stock release of 2.3 mb supported the crude industry increase.

Product stocks fell by 4.2 mb in line with the seasonal trend of -5.1 mb. These stocks closed the month at 161.2 mb, only 3.4 mb below the five-year average. Fuel oil (-2.4 mb), middle distillates (-1.5 mb) and motor gasoline (-0.7 mb) stocks were down while other products (+0.5 mb) were slightly up. Refinery runs in OECD Asia Oceania declined by 240 kb/d compared to February.

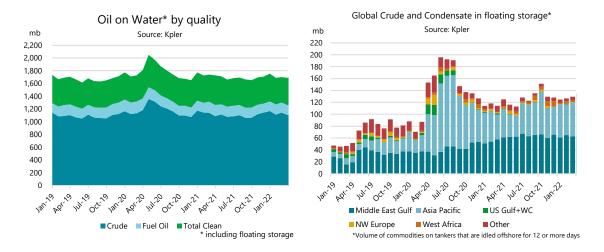


Preliminary data from the Petroleum Association of Japan show that in April total oil stocks were up by 6.1 mb compared to normal build of 8.5 mb. Crude oil and unfinished product stocks rose by 3.8 mb, while middle distillates (+0.9 mb), residual fuels (+0.5 mb), gasoline (+0.4 mb) and other products (+0.5 mb) slightly increased.

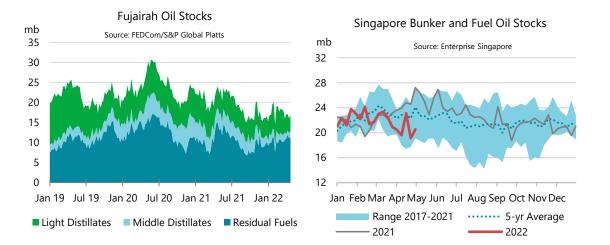
Other stock developments

Oil on the water (including floating storage), fell by 13 mb in March to 1 688 mb, according to *Kpler*. The decrease was due to a significant decline in crude oil volumes of 40.3 mb, while oil products were up by 27.3 mb. Lower crude exports out of the Middle East and higher product exports from North America and Asia contributed to the changes. Crude and condensate held in short-term floating storage built by 2.9 mb to 129.6 mb. In the Asia Pacific region, volumes increased by 5.8 mb, about 10 % m-o-m, partially offsetting declines in the Middle East and West Africa. At the same time, products in short-term floating storage rose by 4 mb to 48 mb at end-March.

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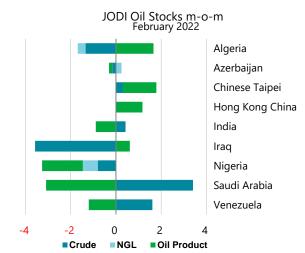
In Fujairah, independent product stocks posted a small decline in April, down o.8 mb to 16.3 mb. Middle distillates fell by 0.5 mb to 1.4 mb, hovering at historically low levels. Light distillates stocks were also down, by 1 mb, while heavy distillates rose by 0.7 mb.



Independent product stocks in Singapore, the world's largest bunkering hub, fell by 1.3 mb to

40.3 mb in April, according to data from *Enterprise Singapore*. Residual fuels led the way with a 1.1 mb decline. Middle distillate inventories were down by 0.4 mb while light distillates built by 0.3 mb.

Total oil stocks in 12 non-OECD economies reporting data to the JODI-Oil database decreased by 2.8 mb in February. Crude oil and NGLs fell in Iraq (-3.6 mb), and Algeria (-1.6 mb) while they rose in Saudi Arabia (+3.4 mb) and Venezuela (+1.6 mb). Products stocks built in Algeria (+1.7 mb), Chinese Taipei (+1.5 mb) and Hong Kong (+1.2). By contrast, products drew in Saudi



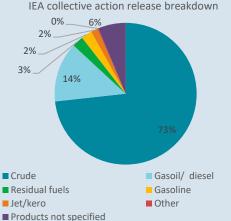
Arabia (-3.1 mb), Nigeria (-1.8 mb) and Venezuela (-1.2 mb).

Box 3. IEA emergency reserves are making their way to the market

The first tranche of deliveries from the IEA's collective actions agreed in March and April 2022 are coming to market. In March, net drawdowns from the US Strategic Petroleum Reserve (SPR) were around 14 mb, inclusive of sales related to the IEA collective action and previously committed stock releases. In addition, 2.3 mb of crude oil was released from strategic stocks in Korea, while France and Germany drew 5.2 mb and 1.2 mb of middle distillates, respectively. Public stocks were also released in four other IEA countries in March. Additional volumes of OECD government stocks will be released in April, including 18 mb from the US SPR.

In addition to stocks released from public reserves, around 47 mb of oil stocks have been made available from commercial inventories, mainly refined products, by lowering the stockpiling obligations imposed on private companies.

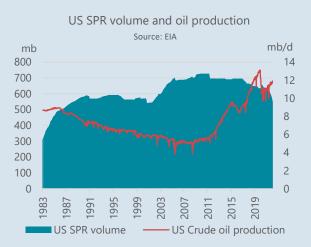
Crude oil accounts for 73% of the 183 mb emergency stocks that have already or will be made available as part of the March and April IEA collective actions. Gasoil/diesel is expected to account for 14%, residual fuel 3%, and gasoline 2%. Crude oil will make up the entire stock release from the United States, as well as the additional volumes that the United States has pledged to release from its reserves independent of the IEA collective action (on March 31, the Biden administration committed to the release of



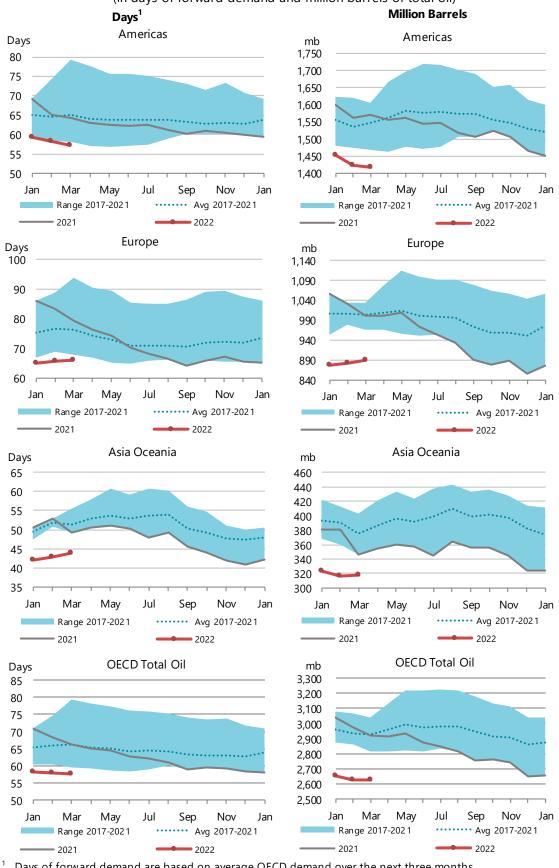
1 mb/d of crude through October, which includes its commitments as part of the IEA collective action and additional volumes). More than 90% of stocks being released in Korea will consist of crude oil, and two-thirds in Japan. On the other hand, 70% of volumes released in Europe will come from petroleum products.

The US Department of Energy announced in early May a long-term plan to buy back 60 mb of oil to

replenish its strategic reserves at an undetermined point in the future, when it expects market tightness to have eased. Bids will be placed in the fall of 2022. At the end of March, the United States held about 570 mb of oil in its SPR, covering 28.2 days of forward demand. SPR volumes will drop to 40-years lows when all committed barrels have been released. However, in the longer term, it plans to significantly reduce volumes held in the SPR. Following the surge in domestic oil production and lower net imports in recent years, Washington previously announced



that it intends to sell about 360 mb of SPR crude from 2017 to 2031 in order to allocate the profits from the sale of oil to other budgets.



Regional OECD End-of-Month Industry Stocks

(in days of forward demand and million barrels of total oil)

Days of forward demand are based on average OECD demand over the next three months.

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Prices

Overview

The protracted war in Ukraine has compounded oil market uncertainties. Crude oil prices fell from March to April, remaining volatile but in a lower and narrower \$10/bbl range above \$100/bbl for ICE Brent. Since February, Western nations have imposed evermore-severe sanctions on Russia to quell the conflict by political and economic means. The spreading impact of these injunctions has collided with toughening US Federal Reserve (Fed) measures to fight persistent inflation and the industrial supply shock from China's zero-Covid lockdowns. Oil demand growth remains relatively sustained, despite pessimistic economic indicators, and refinery output has struggled to keep pace despite the release of strategic reserves to ease crude and product supply tensions. This has resulted in a massive product price dislocation versus crude for middle distillates, and increasingly for gasoline, as well as lofty refinery margins that are driving stronger demand for crude.

	Crude I	Prices a	nd Diffe	rentials	(\$/bbl)			\$/bbl	Benchmark Crude Prices
		Month		Week of	Last	Chng	Apr-22		Source: Argus Media Ltd
	Apr-21	Mar-22	Apr-22	02 May	06 May	m-o-m	у-о-у	145	
Crude Futures (M	1)							135	
NY MEX WTI	61.69	108.26	101.64	106.68	109.77	-6.62	39.95		
ICE Brent	65.33	112.46	105.92	109.20	112.39	-6.54	40.59	125	
Crude Marker Gra	ades							115	
North Sea Dated	64.59	118.75	104.25	110.52	114.46	-14.50	39.66	115	
WTI (Cushing)	61.71	108.52	101.77	106.68	109.77	-6.75	40.06	105	
Dubai	62.92	110.49	102.91	106.00	107.20	-7.58	39.99		WHE V
Differential to Nor	th Sea D	Dated						95	a constant
WTI (Cushing)	-2.88	-10.23	-2.48	-3.84	-4.69	7.75	0.41	85	
Dubai	-1.68	-8.26	-1.34	-4.52	-7.26	6.92	0.34		
Differential to ICE	Brent							75	
North Sea Dated	-0.74	6.29	-1.67	1.32	2.07	-7.96	-0.93	01-Jan 22	01-Feb 22 01-Mar 22 01-Apr 22 01-May 22
NY MEX WTI	-3.64	-4.20	-4.28	-2.52	-2.62	-0.08	-0.64		WTI Cushing N. Sea Dated

Sources: Argus Media Ltd, ICE, NYMEX (NYMEX WTI = NYMEX Light Sweet Crude)

April is normally a seasonal low point for end-user demand that allows refiners to undertake plant maintenance. In the coming weeks, the end of refinery turnarounds and an expected easing of China's lockdowns will coincide with oil field maintenance work in the North Sea and US Gulf Coast from May through early-July. As global refinery capacity outages drop, runs will increase by ~4 mb/d from April to July versus a relatively flat trend for crude supply. This, combined with toughening sanctions on Russian oil, will tighten physical crude markets. Oil prices already reflect those tensions as North Sea Dated prices have moved from discounts to ICE Brent futures throughout April to premiums since the beginning of May.

The wind down period for the fourth EU sanction package ends on 15 May, after which a number of current loopholes for accessing Russian barrels will close. A new sixth round of European Union (EU) sanctions - still under negotiation but expected to come into effect starting 16 May - could affect Russian crude and product imports and shipping services by EU entities. The proposed ban on crude imports would be implemented within six months and that on products by the end of the year.

The weakening economic growth outlook has weighed on financial markets in general, including crude futures. Macroeconomic headwinds have arisen from high inflation (driven by fiscal

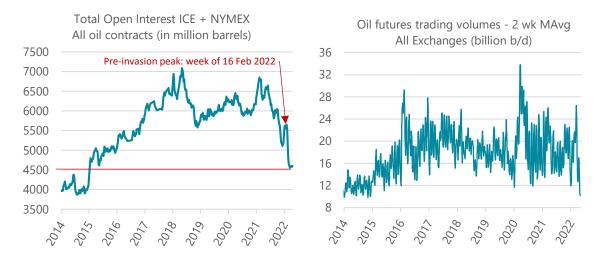
Stocks

stimulus, energy and food prices), deteriorating industrial and service activity worldwide. Consumer confidence has fallen sharply due to heightened inflation, but particularly in Europe due to the proximity of the war in Ukraine, the expanding refugee crisis and diminishing but continued dependence on Russian energy.

To contain inflation, the US Fed announced a 0.5% pt policy rate hike on 4 May, the biggest increase in over 20 years, and a drawdown of its \$9 trillion in bonds that will reduce market liquidity. On the other hand, growth concerns are holding back further increases by other central banks. Higher US dollar exchange rates will affect 60% of the poorest emerging markets that are already debt-distressed. Rising energy and food prices plus higher interest rates in emerging economies have already started triggering social unrest that could further weaken economic activity.

Futures markets

Open interest and trading volumes across oil market contracts remain at their lowest level since end-2014. The broadening consequences of hawkish monetary policy and of the conflict in Ukraine have resulted in extreme financial market volatility. This has reduced liquidity and lowered trading volumes in oil futures. Banks and clearing houses have been much tougher on commodity margin calls and financing conditions since the massive nickel short squeeze in mid-March.

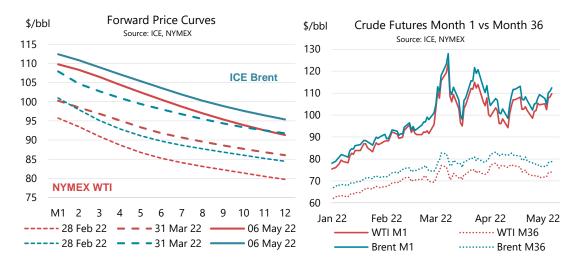


Prompt crude oil futures prices fell by around \$6.60/bbl m-o-m in April. This was a smaller fall than physical crude prices, where strategic reserve availability deflated the additional premium for access to supply. However, the general drop in prices may represent a trough rather than the transition to a lower regime.

Concerns about the economic outlook, inflation and the impact of Chinese lockdowns maintained downward pressure on prompt prices over most of April. Prices eased as some Asian uptake of Russian crude suggested a supply redistribution could avoid an outright loss of barrels due to self-imposed embargoes by European companies. However, prices came under upward tension by late April as negotiators made rapid advances on the sixth round of EU sanctions for Russia.

Futures prices fell from their second peak of March in the week beginning the 24th (weekly averages of \$118.48/bbl for ICE Brent and \$113.01/bbl for NYMEX WTI) to a trough in the first week of April (\$103.72/bbl for ICE Brent and \$99.15/bbl for NYMEX WTI). Massive strategic reserve releases announced by the US and by the IEA, plus the full lockdown of Shanghai to fight the spread of Covid, drove the sell-off that pushed both contracts below \$100/bbl on 11 April. As well, the Fed inferred that it would be raising interest rates by 0.5% at its next meeting in May, boosting the US dollar that in turn pressured crude prices.

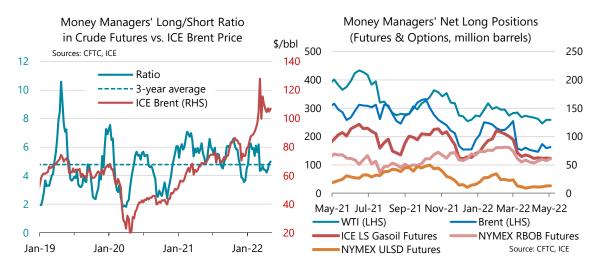
Futures prices rallied in mid-month on supply outages in Libya, data for the first week of April showing Russian production fell to just over 10 mb/d as well as statistics indicating stronger than expected Chinese GDP growth in 1Q22. Prices subsequently retrenched as the World Bank and the IMF published pessimistic updates to their global economic forecasts and as the US government revealed that the economy contracted unexpectedly in 1Q22 q-o-q. A resurgence of Covid cases and cuts to government pandemic assistance payments undermined growth. Prices recovered into the final days of April and early May with improving prospects for a full EU ban on Russian oil and with the cut-off of Russian gas supply to Bulgaria and Poland that triggered alarm about access to energy exports. The Fed's interest rate hike that boosted the US dollar and concern that severe Covid restrictions could spread to Beijing failed to immediately slow the increase in prices.



Prompt futures prices rose overall from 1 April to 6 May, despite their volatility. On the other hand, the long-dated contract months fell, dropping \$3.21/bbl to \$78.85/bbl for ICE Brent and \$3.15/bbl to \$74.05/bbl for NYMEX WTI on the 36 contract month. On the 12 month contract, prices eased into the end of April, lagging the trend on prompt contracts and increasing the 12 month backwardation to \$16-\$18/bbl. The unexpected disconnect reflects the deteriorating economic outlook that will affect forward months and comes despite the planned EU embargo that could result in tighter crude markets.

The ICE Brent prompt premium to NYMEX WTI rose \$0.10/bbl on average in April, to \$4.30/bbl. However, after peaking in the week of 28 March at \$6.20/bbl, the differential narrowed to \$3.50/bbl in late April and \$2.50/bbl in the first week of May. Shipping costs fell, US sweet crude markets tightened and European sweet crude remained robust.

The ICE gasoil premium to ICE Brent gained just \$0.50/bbl m-o-m in April to \$41.97/bbl, but rose steadily and averaged \$49.31/bbl in the last week of the month. The NYMEX ULSD premium to WTI surged by \$15.74/bbl m-o-m to \$60.88/bbl, averaging \$92/bbl in the week of 25 April. The extreme NYMEX tensions reflects the isolated delivery conditions in the New York harbour



The NYMEX RBOB gasoline premium to WTI rose \$4.99/bbl m-o-m to \$35.13/bbl and reached \$42.50/bbl in the final week of April. US gasoline demand remains strong, supported by robust consumer demand in general. Gasoline cracks must rise to levels that ensure refiners don't pull too much supply out of the gasoline pool in response to very strong gasoil-diesel cracks. The gap between gasoil cracks and gasoline cracks provided an incentive for refiners to withdraw available light gasoil components from fluid catalytic cracking (FCC) feedstock streams to the detriment of gasoline production.

					nth Oil Futur nd weekly averag								
	Apr-21	Feb-22	Mar-22	Apr-22	Apr	-22			Week	Comme	ncing:		Last
					m-o-m Chg	y-o-y Chg	28 Mar	04 Apr	11 Apr	18 Apr	25 Apr	02 May	06 May
NYMEX													
Light Sweet Crude Oil (WTI) 1st contract	61.69	91.63	108.26	101.64	-6.62	39.95	103.51	99.15	101.52	103.88	102.46	106.68	109.77
Light Sweet Crude Oil (WTI) 12th contract	57.98	79.20	86.41	89.24	2.83	31.26	86.53	89.28	91.32	90.05	86.93	89.21	91.31
RBOB	84.33	112.84	138.40	136.77	-1.63	52.43	135.16	130.88	134.71	139.05	142.88	151.88	157.88
ULSD	78.14	119.57	153.39	162.52	9.12	84.38	154.75	142.34	150.21	164.35	194.46	172.03	166.08
ULSD (\$/mmbtu)	14.09	20.94	25.93	26.70	0.76	12.60	25.55	24.38	25.80	27.47	29.41	28.85	28.67
Henry Hub Natural Gas (\$/mmbtu)	2.68	4.46	4.98	6.71	1.73	4.02	5.56	6.08	6.91	7.09	6.98	8.13	8.04
ICE													
Brent 1st contract	65.33	94.10	112.46	105.92	-6.54	40.59	109.69	103.72	105.90	108.44	105.91	109.20	112.39
Brent 12th contract	61.37	82.62	91.40	93.86	2.46	32.49	91.95	93.72	95.52	94.75	91.94	93.28	95.39
Gasoil	69.53	111.67	153.94	147.89	-6.06	78.35	145.85	141.50	142.84	151.27	155.22	160.15	153.50
Prompt Month Differentials													
NYMEX WTI - ICE Brent	-3.64	-2.47	-4.20	-4.28	-0.08	-0.64	-6.18	-4.57	-4.38	-4.56	-3.45	-2.52	-2.62
NYMEX WTI 1st vs. 12th	3.71	12.43	21.85	12.40	-9.45	8.69	16.98	9.87	10.20	13.83	15.53	17.47	18.46
ICE Brent 1st - 12th	3.96	11.48	21.06	12.06	-9.00	8.10	17.74	10.00	10.38	13.69	13.97	15.92	17.00
NYMEX ULSD - WTI	16.45	27.94	45.13	60.88	15.74	44.43	51.24	43.19	48.69	60.47	92.00	65.35	56.31
NYMEX RBOB - WTI	22.64	21.21	30.14	35.13	4.99	12.48	31.65	31.73	33.19	35.17	40.42	45.20	48.11
NYMEX 3-2-1 Crack (RBOB)	20.58	23.45	35.14	43.71	8.57	23.13	38.18	35.55	38.36	43.60	57.62	51.92	50.84
NYMEX ULSD - Natural Gas (\$/mmbtu)	11.41	16.48	20.96	19.99	-0.97	8.58	19.99	18.30	18.90	20.38	22.43	20.71	20.62
ICE Gasoil - ICE Brent	4.20	17.57	41.48	41.97	0.48	37.76	36.16	37.78	36.94	42.83	49.31	50.95	41.11

Source: ICE, NYMEX.

Money manager net long positions on crude futures were stable overall over the four weeks from early-April to early-May. Net positions on ICE Brent futures rose 9% while they contracted by 3% for NYMEX WTI. Both outright long and short positions declined, but short positions fell more (-14%) than longs (-2%). While short positions on ICE Brent dropped 26%, those on NYMEX WTI rose 25%, highlighting a shift in expectations to a tighter US crude balance while international market tensions could increase with an EU embargo on Russian oil. The long-short ratio rose 14% to 5.0 as an increase in the ratio for ICE Brent offset a decline for NYMEX WTI.

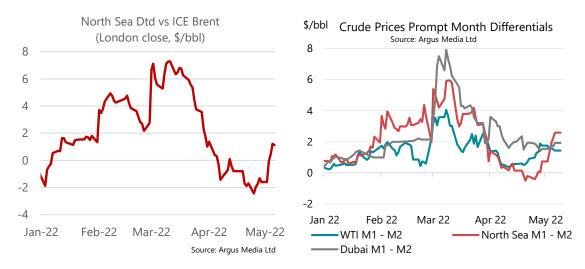
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Net long positions of money managers on product futures rose 8% overall during the four-week period, affecting all product contracts. While the increase for ICE gasoil was just 1%, the NYMEX product contracts both rose by 14%. The changes reflect the tightening US product markets, notably on the US East Coast where the contracts are delivered at maturity. Outright long positions rose for the NYMEX contracts while outright short positions fell slightly for ICE gasoil. The long-short ratio on products was stable overall.

Spot crude oil prices

Physical crude markets eased in April versus futures. The flattening of the backwardation and improved supply compressed most crude price premiums. Since the Russian invasion of Ukraine, the supply options for buyers to meet crude requirements have increased, notably in Europe. The initial surge of non-Russian crude buying in March resulted in a brief supply overhang in Europe whose effect was amplified by the availability of barrels from strategic reserves. Worldwide, crude demand has eased since March with persistently high levels of refinery capacity offline and reduced Chinese runs as Covid lockdowns undermine demand. Finally, some redistribution of Russian crude exports to new buyers has limited pressure to reduce exports.

As a result, North Sea Dated prices flipped from a \$6.29/bbl premium versus ICE Brent in March to a \$1.67/bbl discount in April, falling overall by -\$14.50/bbl to \$104.25/bbl. The size of the reversal is all the more remarkable as the market already held a premium from 6 January through the invasion and until 6 April. However, North Sea Dated prices rebounded to \$110.52/bbl in the first week of May and to \$114.86/bbl on 6 May. North Sea Dated flipped to a solid premium versus ICE Brent in the first week of May. Prices recovered as trading shifted from May to June programmes when substantial North Sea production volumes will be lost.

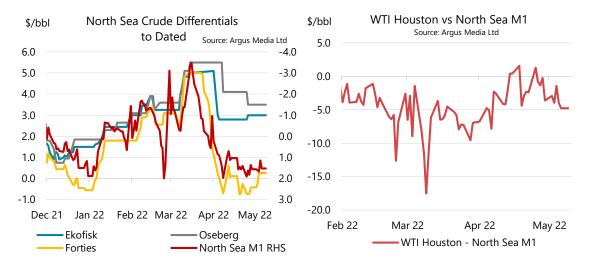


The situation in May is a reversal of April. On the one hand, regional refinery maintenance programmes are wrapping up. On the other hand, intense discussions of a full EU embargo on Russian oil have heightened the urgency to identify new supply sources. Regional field maintenance will reach exceptionally high levels, pushing the June output of the BFOET (Brent, Forties, Oseberg, Ekofisk and Troll that make up the North Sea Dated basket) to its lowest production level in 15 years. Finally, Libyan production issues persist.

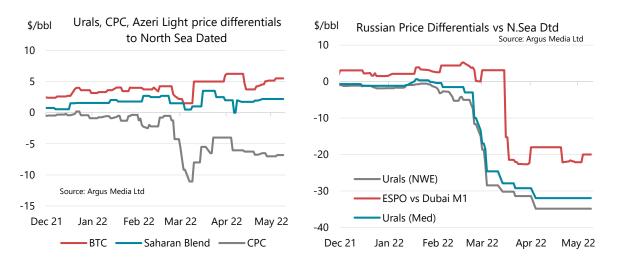
As well, sweet crude differentials remain supported by uptake to meet gasoline, diesel and jet demand requirements while reducing costs for energy and desulphurisation (both driven by

natural gas prices). Backwardation also favours short-haul supply, pushing European refiners to buy more light sweet barrels from the North Sea, North Africa, West Africa and the US.

The Forties premium to North Sea Dated declined \$4.12/bl to -\$0.20/bbl, that for Ekofisk fell -\$1.55/bbl to \$2.97/bbl, Oseberg lost \$0.56/bbl to \$4.34/bbl while Stafjord gained \$0.04/bbl to \$3.32/bbl due to rising shipping costs.



The North Sea Dated M1 premium to WTI at Houston fell \$4.59/bbl to \$2.61/bbl in April, reaching a trough of \$0.94/bbl in the last week of the month, with substantial exports scheduled for May. But the need to cover the regional production shortfall in June pushed out the spread to \$3.95/bbl in the first week of May, attracting more US barrels to the European market. The North Sea Dated M2 premium to Dubai narrowed by \$0.63/bbl in April to \$2.63/bbl, slowing the arrival of Middle East barrels into Europe. However, anticipation of an EU embargo on imports of Russian oil boosted the spread to \$4/bbl in the first week of May and to \$6.20/bbl on 6 May.



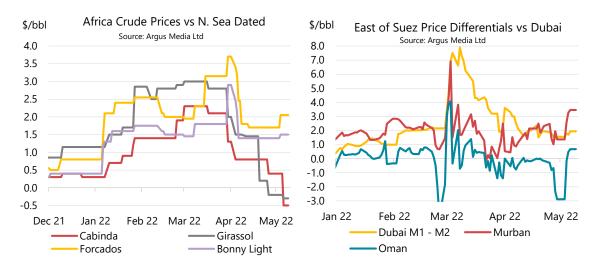
In the Mediterranean, CPC Blend discounts to North Sea Dated remain wide, reflecting risks associated with loading out of a Russian terminal. The discount narrowed by \$0.44/bbl to -\$6.15/bbl overall in April, but was -\$6.90/bbl in the first week of May. Planned maintenance at Kashagan throughout June does not yet appear to have supported the price of CPC, which remained pressured by the restart of its export terminal. The wide discount for CPC has supported its arbitrage to Asia. On the other hand, premiums for Azeri Light rose \$1.16/bbl to \$5/bbl in April and reached \$5.20/bb in the first week of May, supported by continued Libyan production issues.

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The last known deals on Russian Urals sales date from the first week of April and put its price discount versus North Sea Dated at -\$34.85/bbl in Northwest Europe and -\$31.95/bbl in the Mediterranean. Transactions that are more recent have been on a private and confidential basis.

The significant reduction in Chinese refinery buying since the beginning of the Shanghai Covid outbreak has pressured crude price differentials in the Middle East and West Africa. In addition to run cuts to accommodate the Covid lockdowns, government import quotas continue to choke independent refiner purchases while national majors have refinery capacity in maintenance. Finally, the Chinese government continues to discourage increased uptake of Russian crude at significant price discounts, which has limited any opportunistic purchases for runs or storage. The surge of Indian Urals uptake also displaced some buying of Middle East and West African grades.

West African crude price differentials deteriorated from March to April despite a flatter backwardation and falling freight rates. Some cargoes from the May programme were still unsold at end-April, adding to the pressure on prices. Angolan grades fell sharply due to flagging Chinese buying which normally dominates uptake. Cabinda premiums fell \$1.39/bbl to \$0.74/bbl and slipped to a discount of \$0.50/bbl in the first week of May with the overhang of unsold barrels. Girassol fell \$1.95/bbl to \$0.88/bbl in April and to -\$0.22/bbl in the first week of May. Premiums for light sweet Nigerian barrels fell \$0.75/bbl to \$1.33/bbl for Brass River and \$0.25/bbl to \$1.57/bbl for Bonny Light. Differentials rebounded in late April and early May, to \$1.33/bbl and \$1.48/bbl, respectively, on stronger European demand to replace North Sea barrels.

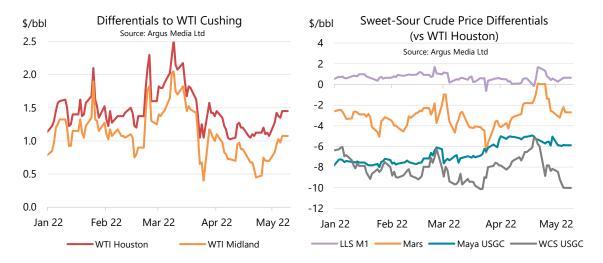


Indian refiners took advantage of the sharp discounts for Russian Urals, ESPO and Sokol grades, to buy substantial volumes via tender and spot purchases for delivery in May and June. An estimated 25-30 mb were picked up, mostly through trading houses. They have also begun to negotiate longer-term contracts. The trading houses (Trafigura, Vitol) reportedly sold the crude to Indian refiners on a delivered basis, covering shipping and insurance costs, which resulted in a price paid by India's refiners that is higher than the quoted discounts for Russian spot crude sales. On the other hand, South Korean refiners waived Urals cargoes and increasingly sought Middle East and US grades.

Middle East crude price premiums to regional marker Dubai fell on average in April versus March as the Dubai price structure flattened. Initial weakness opened the arbitrage to Europe for UAE grades Upper Zakum and Murban loading in June. However, Asian demand recovered in the first week of May for July programmes, supporting differentials late month. The absence of Chinese demand impacted Iraq which made several attempts to tender crude – directly, via the Platts window and via the DME – without attracting satisfactory bids. Oman premiums fell \$0.98/bbl to -\$0.51/bbl in April, but rose to \$0.34/bbl in the first week of May. Murban eased by \$0.41/bbl to \$1.58/bbl and rose to \$3.11/bbl while Upper Zakum premiums declined \$0.62/bbl to -\$0.13/bbl and recovered to \$0.35/bbl. Russian ESPO crude out of Sakhalin continued to attract the usual level of Chinese buying, but barrels struggled to sell beyond China. ESPO trade remains relatively transparent and discounts to Dubai widened by \$7.22/bbl in April to -\$21.50/bbl. Japan plans to phase out crude oil purchases from Russia, as part of an 8 May statement issued by the G7 countries, which will further support Middle East crude price differentials. Japan imported 109 kb/d of Russian crude in March, (-19% y-0-y) of which 71 kb/d of ESPO, 23 kb/d of Sokol and 10 kb/d of Sakhalin Blend.

The trading houses are winding down their Russian crude oil term contracts, forcing Rosneft to perform its own marketing through direct negotiations and tenders. Rosneft does not have crude marketing and shipping know-how comparable to that of the trading houses. Both Rosneft's tenders in April failed (6.5 million tonnes of Urals, ESPO and Sokol loading in May as well as nine cargoes for ESPO for June delivery). The absence of bidders reflects Rosneft sales conditions (prepayment in roubles), shipping complications and the risks of buying from a Russian company hit by various sanctions.

US crude price differentials versus WTI were hit by the planned release of strategic reserves that was announced on 31 March. This compounded pressure from the previous release of late February. The flattening price structure initially supported crude price differentials. However, discounts widened in late month on a stronger WTI backwardation and on the announced award on 21 April by the US Department of Energy (DOE) of 30 mb from the second emergency SPR crude sale that increases deliveries in May and June to 50 mb. The DOE also announced a third Notice of Sale for 40 mb scheduled for 24 May for delivery starting in June. Much of the volumes from the sale announced in April could go to exports, which would support crude prices in the local market.



The WTI backwardation steepened over the month, partly due to blizzards in North Dakota that knocked out the state's shale oil production in April. WTI premiums at Houston and Midland versus Cushing narrowed by \$0.60/bbl to \$1.16/bbl and \$0.75/bbl, respectively, but averaged \$1.38/bbl and \$0.97/bbl in the first week of May on strong European demand for light sweet US barrels. Sour Mars crude discounts narrowed by \$1.57/bbl in April to -\$2.18/bbl but blew out again to -\$4.16/bbl in the first week of May. Maintenance on the Mars platform scheduled for May initially supported differentials.

Western Canadian Select (WCS) discounts at Hardisty versus WTI at Cushing for June barrels narrowed by 2.25/bbl to -14.33/bbl on good US demand. The discount widened slightly in the first week of May to -15.32/bbl as the WTI backwardation steepened. WCS discounts in Houston narrowed by 1.75/bbl to -7.21/bbl, reaching -5.65/bbl in the third week of April on healthy sour crude demand. They blew out to -9.46/bbl in the first week of May.

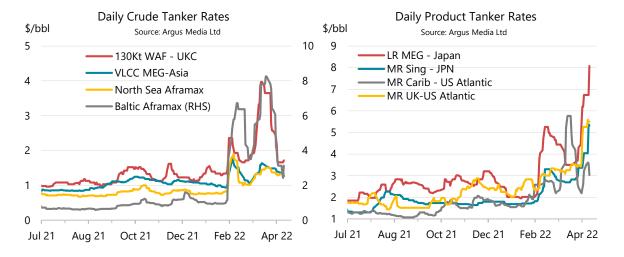
					I Prices and								
	Apr-21	Feb-22			Apr				Week	Commei	ncina:		Last
					m-o-m Chg		28 Mar	04 Apr				02 Mav	06 May
Crudes					•	, , ,		•	•	•	•		
North Sea Dated	64.59	98.01	118.75	104.25	-14.50	39.66	112.31	103.58	104.28	105.78	103.07	110.52	114.46
North Sea Mth 1	65.80	97.35	117.45	105.54	-11.92	39.74	112.35	104.83	105.22	107.28	104.73	112.01	115.98
North Sea Mth 2	65.32	94.16	113.46	105.24	-8.22	39.92	110.35	104.10	104.88	107.56	104.68	109.99	113.39
WTI (Cushing) Mth 1	61.71	91.74	108.52	101.77	-6.75	40.06	103.51	99.15	101.52	104.20	102.66	106.68	109.77
WTI (Cushing) Mth 2	61.71	90.31	106.01	100.85	-5.15	39.14	101.51	98.23	101.06	103.54	101.21	105.12	108.33
WTI (Houston) Mth 1	62.61	93.23	110.25	102.93	-7.33	40.32	104.96	100.32	102.72	105.29	103.78	108.06	111.22
Urals (NWE)	62.06	92.50	89.92	69.58	-20.34	7.52	80.91	68.73	69.43	70.93	68.22	75.67	79.61
Dubai (1st month)	62.92	92.48	110.49	102.91	-7.58	39.99	107.32	101.66	100.84	106.72	102.34	106.00	107.20
Differentials to Futures													
North Sead Dated vs. ICE Brent	-0.74	3.91	6.29	-1.67	-7.96	-0.93	2.62	-0.14	-1.62	-2.66	-2.84	1.32	2.07
WTI (Cushing) Mth1 vs. NYMEX	0.02	0.11	0.26	0.13	-0.13	0.11	0.00	0.00	0.00	0.32	0.20	0.00	0.00
Differentials to Physical Markers													
WTI (Houston) versus North Sea Mth 1	-3.19	-4.13	-7.20	-2.61	4.59	0.58	-7.39	-4.51	-2.51	-1.99	-0.94	-3.95	-4.76
WTI (Houston) versus WTI (Cushing) Mth 1	0.90	1.49	1.73	1.16	-0.58	0.25	1.45	1.16	1.19	1.08	1.13	1.38	1.45
Urals (NWE) versus North Sea Dated	-2.53	-5.52	-28.83	-34.67	-5.84	-32.14	-31.40	-34.85	-34.85	-34.85	-34.85	-34.85	-34.85
Dubai versus North Sea Mth 2	-2.40	-1.68	-2.97	-2.34	0.63	0.07	-3.03	-2.44	-4.03	-0.84	-2.33	-3.99	-6.19
Dubai versus WTI (Cushing) Mth 2	1.20	2.17	4.48	2.05	-2.43	0.85	5.80	3.42	-0.22	3.18	1.14	0.87	-1.13
Prompt Month Differentials													
Forw ard North Sea Mth1-Mth2	0.48	3.20	4.00	0.29	-3.70	-0.19	2.01	0.73	0.35	-0.28	0.05	2.02	2.59
Forw ard WTI Cushing Mth1-Mth2	-0.01	1.43	2.51	0.92	-1.60	0.92	2.00	0.92	0.46	0.66	1.45	1.56	1.44
Forw ard Dubai Mth1-Mth2	0.50	2.04	4.76	2.13	-2.63	1.63	2.56	2.79	1.83	1.89	1.64	1.81	1.93
Source: Argus Media Ltd, ICE													

Freight

Freight rates rose overall in April, boosted by tonne-mile demand as more ships move cargoes over longer distances as state and self-imposed company embargoes on Russian oil force trade flows to adapt. Rates for crude tankers hit a peak in the first half of April before cooling to the levels of March at the beginning of May. Clean tanker rates rose steadily over the month in most cases, beginning May at levels much above their averages for March of April.

The changing crude trade flows have benefited the Aframax and Suezmax tanker classes. The existing overhang of tonnage in VLCC s continues to increase. However, the initial spike in rates gave way to a correction as the early panic to charter tankers to lock-in non-Russian supply eased and volumes shifted between tanker classes to reduce overall costs.

According to BRS Group, while VLCC scrapping has been very modest so far in 2022, some 13 new VLCCs have been added to the fleet and another 31 are scheduled for delivery before the end of the year. Several new VLCCs are transporting middle distillate for the moment rather than crude, however. The resulting weak chartering rates leave little to cover operating costs beyond the bunker payments that have been boosted by strong gasoil prices.



Most of the initial trade flow adjustments impacted Aframax and Suezmax tankers. More West African and US cargoes going to Europe have increased the call for both classes of tankers. Aframaxes benefitted in particular from the rise in transatlantic traffic. The loss of Russian vessels also contributed to tighten these tanker segments where much of that capacity was concentrated.

Clean product tanker classes have seen a steady increase in tension over the course of the month. The Atlantic Basin middle distillate supply deficit has been compounded by a dearth of stocks. This has opened an arbitrage to move from East of Suez to the Atlantic Basin. Moreover, pressure to reduce uptake of Russian product has increased the call on other exporters to Europe, notably US refiners. Increased transatlantic and Middle East trade have boosted Long Range (LR) and Medium Range (MR) tanker rates. Higher Asian rates reflect increased Chinese product exports as Covid lockdowns weaken demand.

					Freight C	osts						
			(r	nonthlya	and weekly av	verages, \$/I	obl)					
					Apr	-22		V	Veek Co	mmenci	ng	
	Apr-21	Feb-22	Mar-22	Apr-22	m-o-m chg	y-o-y chg	28-Mar	04-Apr	11-Apr	18-Apr	25-Apr	02-May
Crude Tankers												
VLCC MEG-Asia	0.89	1.05	1.33	1.50	0.17	0.6	1.27	1.52	1.57	1.49	1.43	1.33
130Kt WAF - UKC	1.15	1.49	1.86	3.06	1.20	1.9	2.04	3.69	3.70	2.88	2.07	1.68
Baltic Aframax	0.74	1.45	5.37	6.35	0.98	5.6	5.12	6.66	8.04	7.02	4.15	2.87
North Sea Aframax	0.70	0.89	1.27	1.39	0.12	0.7	1.24	1.36	1.48	1.41	1.32	1.33
Product Tankers												
LR MEG - Japan	2.46	2.02	4.50	4.22	-0.27	1.8	4.42	3.65	3.50	3.80	5.80	7.18
MR Sing - JPN	1.82	1.73	2.80	3.02	0.22	1.2	2.76	2.70	2.78	2.99	3.57	4.91
MR Carib - US Atlantic	1.22	1.83	2.61	3.84	1.23	2.6	2.70	4.71	5.23	3.19	2.53	3.45
MR UK-US Atlantic	1.86	2.55	3.06	3.66	0.61	1.8	3.23	3.20	3.43	3.46	4.47	5.46
Source: Argus Media Ltd												

Europe 14.3 Asia Oceania 8.0 Total OECD 47.7 NON-OECD DEMAND FSU FSU 4.7 Europe 0.8 China 13.1 Other Asia 14.0 Arrericas 6.3 Middle East 8.7 Africa 4.2 Total Non-OECD 51.8 Total Demand ¹ 99.5 OECD SUPPLY Americas Asia Oceania 0.4 Total OECD ⁴ 26.9 NON-OECD SUPPLY 14.6 Europe 0.1 China 3.8 Other Asia 3.4 Americas 5.1 Middle East 3.1 Middle East 3.1 Middle East 3.1 Africa 1.5 Total Non-OECD ⁴ 31.6 Processing gains ³ 2.4 Global Biofuels 2.7	2019 1 25.5 14.3 7.9 47.8 4.7 0.8 13.9 14.0 6.3 8.7 4.2 52.7 100.5 24.8 3.4 0.5	WOR 1Q20 24.4 13.3 7.9 45.6 4.6 0.7 12.2 13.5 5.8 8.4 4.1 49.3 94.9 3.7 0.5 30.1 14.8 0.1 4.0 3.2 5.6	2020 20.0 11.0 6.6 37.6 4.1 0.7 14.8 11.3 5.1 7.6 3.5 46.9 84.5 22.6 3.6 0.5 26.7 13.2 0.1 4.0 3.0 3.0 13.2 14.8 14.8 14.9 15.2	(mi	llion barr	22.6 12.4 7.1 42.1 4.5 0.7 14.3 12.6 8.2 3.8 91.9 23.8 3.6 0.5 27.9 13.5 0.1 4.0)		3Q21 24.8 13.8 7.1 45.8 4.9 0.7 15.7 12.6 6.2 8.9 3.9 3.9 53.0	4Q21 25.0 13.9 7.8 46.8 5.0 0.8 15.7 13.7 6.2 8.4 4.1 53.9 100.7 25.3 3.4 0.5 29.2 14.3 0.1	2021 24.3 13.1 7.4 44.8 0.7 15.5 13.2 4.0 8.5 4.0 52.8 97.5 24.3 3.4 0.5 28.2 24.3 3.4 0.5 28.2 28.3 97.5	1Q22 24.5 13.1 7.9 45.5 13.8 6.0 8.5 4.2 53.3 98.8 24.7 3.3 0.5 28.6 14.4 0.1	24.8 13.5 7.2 45.5 4.3 0.7 15.1 13.8 6.0 8.6 4.2 52.7	3Q22 25.0 13.8 7.4 46.3 4.5 0.8 16.0 13.3 6.2 9.0 4.1 53.7 100.0 26.2 3.2 0.5 29.9 11.5 0.1 5.1 20.5 29.9	26.6 3.4 0.5 30.5 11.7	2022 24.8 13.8 7.0 45.9 4.3 53.6 99.6 25.7 3.3 0.3 29.5 25.7 3.3 0.3 29.5
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DECD DEMAND Americas 25.4 Europe 14.3 Asia Oceania 8.0 Total OECD 47.7 NON-OECD DEMAND "SU "SU 4.7 Europe 0.8 China 13.1 Dther Asia 14.0 Americas 6.3 Middle East 8.7 Mricia 4.2 Fotal Demand ¹ 99.5 DECD SUPPLY Unamericas Cotal Decod ⁴ 26.9 Staia Oceania 0.4 Fotal OECD ⁴ 26.9 Cotal Decod ⁴ 26.9 Staia Oceania 0.4 Fotal OECD ⁴ 26.9 VON-OECD SUPPLY Staia Oceania VON-OECD SUPPLY Staia Staia Oceania 0.4 China 3.8 Other Asia 3.4 Americas 5.1 Uiddle East 3.1 Middle East 3.1 Cotal Non-OECD ⁴	25.5 14.3 7.9 47.8 4.7 0.8 13.9 14.0 6.3 8.7 4.2 52.7 100.5 24.8 3.4 0.5 28.6 14.6 0.1 3.9 3.3	24.4 13.3 7.9 45.6 0.7 12.2 13.5 5.8 8.4 4.1 49.3 94.9 25.9 3.7 0.5 30.1 14.8 0.1 4.0 3.2	20.0 11.0 6.6 37.6 37.6 1 4.8 11.3 5.1 7.6 3.5 46.9 84.5 22.6 3.6 0.5 26.7 1 3.2 0.1 4.0 3.0	22.7 12.9 6.8 42.3 4.7 0.7 15.0 12.3 5.7 50.7 93.1 23.2 3.4 0.5 27.1 12.8 0.1 4.0	23.1 12.5 7.3 43.0 4.7 0.7 15.2 13.5 5.9 8.3 3.9 52.2 23.7 3.5 0.5 27.8 13.2 0.1 3.9	22.6 12.4 7.1 42.1 4.5 0.7 14.3 12.6 8.2 3.8 91.9 23.8 3.6 0.5 27.9 13.5 0.1 4.0	22.8 11.9 7.7 42.4 4.6 0.7 15.0 13.5 5.8 8.3 4.1 51.9 94.3 23.3 3.6 0.5 27.4 13.4 0.1	24.4 12.6 7.0 44.0 4.7 15.7 15.7 15.9 5.9 8.5 4.0 52.3 96.3 24.3 3.1 0.5 27.8 13.7	24.8 13.8 7.1 45.8 4.9 0.7 15.7 12.6 6.2 8.9 3.9 53.0 98.8 24.4 3.4 0.5 28.3 13.7	25.0 13.9 7.8 46.8 5.0 0.8 15.7 13.7 6.2 8.4 4.1 53.9 100.7 25.3 3.4 0.5 29.2 14.3	24.3 13.1 7.4 44.8 0.7 15.5 13.2 6.0 8.5 4.0 52.8 97.5 24.3 3.4 0.5 28.2 24.3 3.4 0.5 28.2 24.3	24.5 13.1 7.9 45.5 4.6 0.7 15.5 13.8 6.0 8.5 5.4.2 53.3 98.8 24.7 3.3 0.5 28.6 14.4	24.8 13.5 7.2 45.5 4.3 0.7 15.1 13.8 6.0 8.6 4.2 52.7 98.2 25.4 3.2 0.5 29.1 12.5	25.0 13.8 7.4 46.3 16.0 13.3 6.2 9.0 4.1 53.7 100.0 26.2 3.2 0.5 29.9 11.5	25.0 13.6 7.8 46.4 4.5 0.8 5.0 8.5 4.2 54.0 100.4 26.6 3.4 0.5 30.5 11.7	24. 13. 7. 45. 13. 6. 8. 4. 53. 99. 25. 3. 0. 29.
Americas 25.4 Europe 14.3 Asia Oceania 8.0 Total OECD 47.7 NON-OECD DEMAND 7 FSU 4.7 China 13.1 Dther Asia 14.0 Americas 6.3 Middle East 8.7 Africa 4.2 Fotal Non-OECD 51.8 Fotal Demand ¹ 99.5 DECD SUPPLY 3.0 Europe 3.5 Americas 23.0 Europe 3.5 Staia Oceania 0.4 Total DeCD ⁴ 26.9 NON-OECD SUPPLY 7 FSU 14.6 Europe 0.1 China 3.8 Other Asia 3.4 Americas 5.1 Widdle East 3.1 Africa 1.5 Fotal Non-OECD ⁴ 31.6 Processing gains ³ 2.4 Global Biofuels 2.7 </th <th>14.3 7.9 47.8 4.7 0.8 13.9 14.0 6.3 8.7 4.2 52.7 100.5 24.8 3.4 0.5 28.6 14.6 0.1 3.9 3.3</th> <th>13.3 7.9 45.6 0.7 12.2 13.5 5.8 8.4 4.1 49.3 94.9 25.9 3.7 0.5 30.1 14.8 0.1 4.0 3.2</th> <th>11.0 6.6 37.6 4.1 0.7 14.8 11.3 5.1 7.6 3.5 46.9 84.5 22.6 3.6 0.5 26.7 13.2 0.1 4.0 3.0</th> <th>12.9 6.8 42.3 4.7 0.7 15.0 12.3 5.7 50.7 93.1 23.2 3.4 0.5 27.1 12.8 0.1 4.0</th> <th>12.5 7.3 43.0 4.7 0.7 15.2 13.5 5.9 95.2 95.2 23.7 3.5 0.5 27.8 13.2 0.1 3.9</th> <th>12.4 7.1 42.1 4.5 0.7 14.3 12.6 5.6 8.2 3.8 49.8 91.9 23.8 3.6 0.5 27.9 13.5 0.1 4.0</th> <th>11.9 7.7 42.4 4.6 0.7 15.0 13.5 5.8 8.3 4.1 51.9 94.3 23.3 3.6 0.5 27.4 13.4 0.1</th> <th>12.6 7.0 44.0 4.7 7.0 7 15.7 12.9 8.5 4.0 52.3 96.3 24.3 3.1 0.5 27.8 13.7</th> <th>13.8 7.1 45.8 4.9 0.7 15.7 12.6 6.2 8.9 3.9 53.0 98.8 24.4 3.4 0.5 28.3 13.7</th> <th>13.9 7.8 46.8 5.0 0.8 15.7 13.7 6.2 8.4 4.1 53.9 100.7 25.3 3.4 0.5 29.2 14.3</th> <th>13.1 7.4 44.8 0.7 15.5 13.2 0.0 8.5 4.0 52.8 97.5 24.3 3.4 0.5 28.2 28.2 28.2 13.8</th> <th>13.1 7.9 45.5 13.8 6.0 8.5 4.2 53.3 98.8 24.7 3.3 0.5 28.6 14.4</th> <th>13.5 7.2 45.5 4.3 0.7 15.1 13.8 6.0 8.6 4.2 52.7 98.2 25.4 3.2 0.5 29.1 12.5</th> <th>13.8 7.4 46.3 4.5 0.8 16.0 13.3 6.2 9.0 4.1 53.7 100.0 26.2 3.2 0.5 29.9 11.5</th> <th>13.6 7.8 46.4 4.5 0.8 16.0 13.9 6.2 8.5 4.2 54.0 100.4 26.6 3.4 0.5 30.5 11.7</th> <th>1377 459 459 459 15 133 6 8 4 53 99 253 0 29</th>	14.3 7.9 47.8 4.7 0.8 13.9 14.0 6.3 8.7 4.2 52.7 100.5 24.8 3.4 0.5 28.6 14.6 0.1 3.9 3.3	13.3 7.9 45.6 0.7 12.2 13.5 5.8 8.4 4.1 49.3 94.9 25.9 3.7 0.5 30.1 14.8 0.1 4.0 3.2	11.0 6.6 37.6 4.1 0.7 14.8 11.3 5.1 7.6 3.5 46.9 84.5 22.6 3.6 0.5 26.7 13.2 0.1 4.0 3.0	12.9 6.8 42.3 4.7 0.7 15.0 12.3 5.7 50.7 93.1 23.2 3.4 0.5 27.1 12.8 0.1 4.0	12.5 7.3 43.0 4.7 0.7 15.2 13.5 5.9 95.2 95.2 23.7 3.5 0.5 27.8 13.2 0.1 3.9	12.4 7.1 42.1 4.5 0.7 14.3 12.6 5.6 8.2 3.8 49.8 91.9 23.8 3.6 0.5 27.9 13.5 0.1 4.0	11.9 7.7 42.4 4.6 0.7 15.0 13.5 5.8 8.3 4.1 51.9 94.3 23.3 3.6 0.5 27.4 13.4 0.1	12.6 7.0 44.0 4.7 7.0 7 15.7 12.9 8.5 4.0 52.3 96.3 24.3 3.1 0.5 27.8 13.7	13.8 7.1 45.8 4.9 0.7 15.7 12.6 6.2 8.9 3.9 53.0 98.8 24.4 3.4 0.5 28.3 13.7	13.9 7.8 46.8 5.0 0.8 15.7 13.7 6.2 8.4 4.1 53.9 100.7 25.3 3.4 0.5 29.2 14.3	13.1 7.4 44.8 0.7 15.5 13.2 0.0 8.5 4.0 52.8 97.5 24.3 3.4 0.5 28.2 28.2 28.2 13.8	13.1 7.9 45.5 13.8 6.0 8.5 4.2 53.3 98.8 24.7 3.3 0.5 28.6 14.4	13.5 7.2 45.5 4.3 0.7 15.1 13.8 6.0 8.6 4.2 52.7 98.2 25.4 3.2 0.5 29.1 12.5	13.8 7.4 46.3 4.5 0.8 16.0 13.3 6.2 9.0 4.1 53.7 100.0 26.2 3.2 0.5 29.9 11.5	13.6 7.8 46.4 4.5 0.8 16.0 13.9 6.2 8.5 4.2 54.0 100.4 26.6 3.4 0.5 30.5 11.7	1377 459 459 459 15 133 6 8 4 53 99 253 0 29
Europe 14.3 Asia Oceania 8.0 Fotal OECD 47.7 NON-OECD DEMAND 50 FSU 4.7 Europe 0.8 China 13.1 Other Asia 14.0 Americas 6.3 Middle East 8.7 Atrica 4.2 Fotal Demand ¹ 99.5 DECD SUPPLY 7 Americas 23.0 Europe 3.5 Asia Oceania 0.4 Total Demand ¹ 99.5 DECD SUPPLY 7 Americas 23.0 Europe 3.5 NON-OECD SUPPLY 7 SU 14.6 Europe 0.1 China 3.8 Other Asia 3.4 Americas 5.1 Middle East 3.1 Africa 1.5 Fotal Non-OECD ⁴ 31.6 Processing gains ³ 2.4	14.3 7.9 47.8 4.7 0.8 13.9 14.0 6.3 8.7 4.2 52.7 100.5 24.8 3.4 0.5 28.6 14.6 0.1 3.9 3.3	13.3 7.9 45.6 0.7 12.2 13.5 5.8 8.4 4.1 49.3 94.9 25.9 3.7 0.5 30.1 14.8 0.1 4.0 3.2	11.0 6.6 37.6 4.1 0.7 14.8 11.3 5.1 7.6 3.5 46.9 84.5 22.6 3.6 0.5 26.7 13.2 0.1 4.0 3.0	12.9 6.8 42.3 4.7 0.7 15.0 12.3 5.7 50.7 93.1 23.2 3.4 0.5 27.1 12.8 0.1 4.0	12.5 7.3 43.0 4.7 0.7 15.2 13.5 5.9 95.2 95.2 23.7 3.5 0.5 27.8 13.2 0.1 3.9	12.4 7.1 42.1 4.5 0.7 14.3 12.6 5.6 8.2 3.8 49.8 91.9 23.8 3.6 0.5 27.9 13.5 0.1 4.0	11.9 7.7 42.4 4.6 0.7 15.0 13.5 5.8 8.3 4.1 51.9 94.3 23.3 3.6 0.5 27.4 13.4 0.1	12.6 7.0 44.0 4.7 7.0 7 15.7 12.9 8.5 4.0 52.3 96.3 24.3 3.1 0.5 27.8 13.7	13.8 7.1 45.8 4.9 0.7 15.7 12.6 6.2 8.9 3.9 53.0 98.8 24.4 3.4 0.5 28.3 13.7	13.9 7.8 46.8 5.0 0.8 15.7 13.7 6.2 8.4 4.1 53.9 100.7 25.3 3.4 0.5 29.2 14.3	13.1 7.4 44.8 0.7 15.5 13.2 0.0 8.5 4.0 52.8 97.5 24.3 3.4 0.5 28.2 28.2 28.2 13.8	13.1 7.9 45.5 13.8 6.0 8.5 4.2 53.3 98.8 24.7 3.3 0.5 28.6 14.4	13.5 7.2 45.5 4.3 0.7 15.1 13.8 6.0 8.6 4.2 52.7 98.2 25.4 3.2 0.5 29.1 12.5	13.8 7.4 46.3 4.5 0.8 16.0 13.3 6.2 9.0 4.1 53.7 100.0 26.2 3.2 0.5 29.9 11.5	13.6 7.8 46.4 4.5 0.8 16.0 13.9 6.2 8.5 4.2 54.0 100.4 26.6 3.4 0.5 30.5 11.7	13. 7. 45. 4. 0. 15. 13. 6. 8. 4. 53. 99. 25. 3. 0. 29.
Asia Oceania 8.0 Total OECD 47.7 Fourope 0.8 SU 4.7 Europe 0.8 China 13.1 Dther Asia 14.0 Americas 6.3 Middle East 8.7 Africa 4.2 Total Non-OECD 51.8 Total Demand ¹ 99.5 DECD SUPPLY 23.0 Europe 3.5 Asia Oceania 0.4 Total DECD ⁴ 26.9 NON-OECD SUPPLY 75.0 Suia Oceania 0.4 Total OECD ⁴ 26.9 Suia Oceania 0.4 Total OECD ⁴ 26.9 Surope 0.1 China 3.8 Other Asia 3.4 Americas 5.1 Widdle East 3.1 Middle East 3.1 Ortal Non-OECD ⁴ 31.6 Processing gains ³ 2.4 Oboal Biofuels <	7.9 47.8 4.7 0.8 13.9 14.0 6.3 8.7 4.2 52.7 100.5 24.8 3.4 0.5 28.6 14.6 0.1 3.9 3.3	7.9 45.6 0.7 12.2 13.5 5.8 8.4 4.1 49.3 94.9 25.9 3.7 0.5 30.1 14.8 0.1 4.0 3.2	6.6 37.6 4.1 0.7 14.8 11.3 5.1 7.6 8 46.9 84.5 22.6 6 0.5 26.7 13.2 0.1 4.0 3.0	6.8 42.3 4.7 0.7 15.0 12.3 5.7 50.7 93.1 23.2 3.4 0.5 27.1 12.8 0.1 4.0	7.3 43.0 4.7 0.7 15.2 13.5 5.9 8.3 3.9 52.2 95.2 23.7 3.5 0.5 27.8 13.2 0.1 3.9	7.1 42.1 4.5 0.7 14.3 12.6 8.2 3.8 49.8 91.9 23.8 3.6 0.5 27.9 13.5 0.1 4.0	7.7 42.4 4.6 0.7 15.0 13.5 5.8 8.3 3.4.1 51.9 94.3 23.3 3.6 0.5 27.4 13.4 0.1	7.0 44.0 4.7 0.7 15.7 12.9 5.9 8.5 4.0 52.3 96.3 24.3 3.1 0.5 27.8 13.7	7.1 45.8 4.9 0.7 15.7 12.6 6.2 8.9 3.9 53.0 98.8 24.4 3.4 0.5 28.3 13.7	7.8 46.8 5.0 0.8 15.7 13.7 6.2 8.4 4.1 53.9 100.7 25.3 3.4 0.5 29.2 14.3	7.4 44.8 0.7 15.5 13.2 6.0 8.5 4.0 52.8 97.5 24.3 3.4 0.5 28.2 13.8	7.9 45.5 4.6 0.7 15.5 13.8 6.0 8.5 4.2 53.3 98.8 24.7 3.3 0.5 28.6 14.4	7.2 45.5 4.3 0.7 15.1 13.8 6.0 8.6 4.2 52.7 98.2 25.4 3.2 0.5 29.1 12.5	7.4 46.3 4.5 0.8 16.0 13.3 6.2 9.0 4.1 53.7 100.0 26.2 3.2 0.5 29.9 11.5	7.8 46.4 4.5 0.8 16.0 9 6.2 8.5 4.2 54.0 100.4 26.6 3.4 0.5 30.5 11.7	7. 45. 4. 0. 15. 13. 6. 8. 4. 53. 99. 25. 3. 0. 29.
Total OECD 47.7 NON-OECD DEMAND FSU 4.7 FSU 4.7 Europe 0.8 China 13.1 1 1 Dther Asia 14.0 13.1 1 Dther Asia 14.0 3.1 1 Americas 6.3 3 1 Midale East 8.7 3 4.2 Total Non-OECD 51.8 7 1 Total Demand ¹ 99.5 1 1 DECD SUPPLY Xmericas 23.0 2.0 Europe 3.5 35 35 Asia Oceania 0.4 4 4 Fotal OECD ⁴ 26.9 9 1 China 3.8 3.4 3 3 NON-OECD SUPPLY 14.6 3.1 3 Europe 0.1 1 3 3 Non-OECD SUPLY 14.6 3.1 3 3 Mericas 5.1 3.1 3<	47.8 4.7 0.8 13.9 14.0 6.3 8.7 4.2 52.7 100.5 24.8 3.4 0.5 28.6 14.6 0.1 3.9 3.3	45.6 0.7 12.2 13.5 5.8 8.4 4.1 49.3 94.9 25.9 3.7 0.5 30.1 14.8 0.1 4.0 3.2	37.6 4.1 0.7 14.8 11.3 5.1 7.6 3.5 46.9 84.5 22.6 3.6 0.5 26.7 13.2 0.1 4.0 3.0	42.3 4.7 0.7 15.0 12.3 5.7 50.7 93.1 23.2 3.4 0.5 27.1 12.8 0.1 4.0	43.0 4.7 0.7 15.2 13.5 5.9 95.2 23.7 3.5 0.5 27.8 13.2 0.1 3.9	42.1 4.5 0.7 14.3 12.6 5.6 8.2 3.8 49.8 91.9 23.8 3.6 0.5 27.9 13.5 0.1 4.0	42.4 4.6 0.7 15.0 13.5 5.8 8.3 4.1 51.9 94.3 23.3 3.6 0.5 27.4 13.4 0.1	44.0 4.7 0.7 15.7 12.9 5.9 8.5 4.0 52.3 96.3 24.3 3.1 0.5 27.8 13.7	45.8 4.9 0.7 15.7 12.6 6.2 8.9 3.9 53.0 98.8 24.4 3.4 0.5 28.3 13.7	46.8 5.0 0.8 15.7 13.7 6.2 8.4 4.1 53.9 100.7 25.3 3.4 0.5 29.2 14.3	44.8 4.8 0.7 15.5 13.2 6.0 8.5 4.0 52.8 97.5 24.3 3.4 0.5 28.2 13.8	45.5 4.6 0.7 15.5 13.8 6.0 8.5 4.2 53.3 98.8 24.7 3.3 0.5 28.6 14.4	45.5 4.3 0.7 15.1 13.8 6.0 8.6 4.2 52.7 98.2 25.4 3.2 0.5 29.1 12.5	46.3 4.5 0.8 16.0 13.3 6.2 9.0 4.1 53.7 100.0 26.2 3.2 0.5 29.9 11.5	46.4 4.5 0.8 16.0 13.9 6.2 8.5 4.2 54.0 100.4 26.6 3.4 0.5 30.5 11.7	45. 4. 0. 15. 13. 6. 8. 4. 53. 99. 25. 3. 0. 29.
NON-OECD DEMAND FSU 4.7 Europe 0.8 China 13.1 Other Asia 14.0 Americas 6.3 Middle East 8.7 Atrica 4.2 Total Non-OECD 51.8 Total Demand ¹ 99.5 OECD SUPPLY Americas Americas 23.0 Europe 3.5 Asia Oceania 0.4 Total OECD ⁴ 26.9 NON-OECD SUPPLY 14.6 Europe 0.1 China 3.8 Other Asia 3.4 Americas 5.1 Middle East 3.1 Africa 1.5 Total Non-OECD ⁴ 31.6 Processing gains ³ 2.4 Global Biofuels 2.7	4.7 0.8 13.9 14.0 6.3 8.7 4.2 52.7 100.5 24.8 3.4 0.5 28.6 14.6 0.1 3.9 3.3	4.6 0.7 12.2 13.5 5.8 8.4 4.1 49.3 94.9 25.9 3.7 0.5 30.1 14.8 0.1 4.0 3.2	4.1 0.7 14.8 11.3 5.1 7.6 3.5 46.9 84.5 22.6 3.6 0.5 26.7 13.2 0.1 4.0 3.0	4.7 0.7 15.0 12.3 5.7 8.6 3.7 50.7 93.1 23.2 3.4 0.5 27.1 12.8 0.1 4.0	4.7 0.7 15.2 13.5 5.9 8.3 3.9 52.2 95.2 23.7 3.5 0.5 27.8 13.2 0.1 3.9	4.5 0.7 14.3 12.6 5.6 8.2 3.8 49.8 91.9 23.8 3.6 0.5 27.9 13.5 0.1 4.0	4.6 0.7 15.0 13.5 5.8 8.3 4.1 51.9 94.3 23.3 3.6 0.5 27.4 13.4 0.1	4.7 0.7 15.7 12.9 8.5 4.0 52.3 96.3 24.3 3.1 0.5 27.8 13.7	4.9 0.7 15.7 12.6 6.2 8.9 3.9 53.0 98.8 24.4 3.4 0.5 28.3 13.7	5.0 0.8 15.7 13.7 6.2 8.4 4.1 53.9 100.7 25.3 3.4 0.5 29.2 14.3	4.8 0.7 15.5 13.2 6.0 8.5 4.0 52.8 97.5 24.3 3.4 0.5 28.2 13.8	4.6 0.7 15.5 13.8 6.0 8.5 4.2 53.3 98.8 24.7 3.3 0.5 28.6 14.4	4.3 0.7 15.1 13.8 6.0 8.6 4.2 52.7 98.2 25.4 3.2 0.5 29.1 12.5	4.5 0.8 16.0 13.3 6.2 9.0 4.1 53.7 100.0 26.2 3.2 0.5 29.9 11.5	4.5 0.8 16.0 13.9 6.2 8.5 4.2 54.0 100.4 26.6 3.4 0.5 30.5 11.7	4. 0. 15. 13. 6. 8. 4. 53. 99. 25. 3. 0. 29.
FSU 4.7 Europe 0.8 China 13.1 Other Asia 14.0 Americas 6.3 Middle East 8.7 Africa 4.2 Total Non-OECD 51.8 Total Demand ¹ 99.5 OECD SUPPLY Americas Asia Oceania 0.4 Total OECD ⁴ 26.9 NON-OECD SUPPLY 14.6 Europe 0.1 China 3.8 Other Asia 3.4 Americas 5.1 Middle East 3.1 Africa 1.5 Total Non-OECD ⁴ 31.6 Processing gains ³ 2.4 Global Biofuels 2.7	0.8 13.9 14.0 6.3 8.7 4.2 55.7 100.5 24.8 3.4 0.5 28.6 14.6 0.1 3.9 3.3	0.7 12.2 13.5 5.8 8.4 4.1 49.3 94.9 25.9 3.7 0.5 30.1 14.8 0.1 4.0 3.2	0.7 14.8 11.3 5.1 7.6 3.5 46.9 84.5 22.6 3.6 0.5 26.7 13.2 0.1 4.0 3.0	0.7 15.0 12.3 5.7 8.6 3.7 50.7 93.1 23.2 3.4 0.5 27.1 12.8 0.1 4.0	0.7 15.2 13.5 5.9 8.3 3.9 52.2 95.2 23.7 3.5 0.5 27.8 13.2 0.1 3.9	0.7 14.3 12.6 5.6 8.2 3.8 49.8 91.9 23.8 3.6 0.5 27.9 13.5 0.1 4.0	0.7 15.0 13.5 5.8 8.3 4.1 51.9 94.3 23.3 3.6 0.5 27.4 13.4 0.1	0.7 15.7 12.9 5.9 8.5 4.0 52.3 96.3 24.3 3.1 0.5 27.8 13.7	0.7 15.7 12.6 6.2 8.9 3.9 53.0 98.8 24.4 3.4 0.5 28.3 13.7	0.8 15.7 13.7 6.2 8.4 4.1 53.9 100.7 25.3 3.4 0.5 29.2 14.3	0.7 15.5 13.2 6.0 8.5 4.0 52.8 97.5 24.3 3.4 0.5 28.2 13.8	0.7 15.5 13.8 6.0 8.5 4.2 53.3 98.8 24.7 3.3 0.5 28.6 14.4	0.7 15.1 13.8 6.0 8.6 4.2 52.7 98.2 25.4 3.2 0.5 29.1 12.5	0.8 16.0 13.3 6.2 9.0 4.1 53.7 100.0 26.2 3.2 0.5 29.9 11.5	0.8 16.0 13.9 6.2 8.5 4.2 54.0 100.4 26.6 3.4 0.5 30.5 11.7	0. 15. 13. 6. 8. 4. 53. 99. 25. 3. 0. 29.
Europe0.8China13.1Other Asia14.0Americas6.3Viddle East8.7Africa4.2Total Non-OECD51.8Total Demand ¹ 99.5DECD SUPPLYAmericas23.0Europe3.5Asia Oceania0.4Total OECD ⁴ 26.9NON-OECD SUPPLYFSU14.6Europe0.1China3.8Other Asia3.4Americas5.1Middle East3.1Africa1.5Total Non-OECD ⁴ 31.6Processing gains ³ 2.4Global Biofuels2.7	0.8 13.9 14.0 6.3 8.7 4.2 55.7 100.5 24.8 3.4 0.5 28.6 14.6 0.1 3.9 3.3	0.7 12.2 13.5 5.8 8.4 4.1 49.3 94.9 25.9 3.7 0.5 30.1 14.8 0.1 4.0 3.2	0.7 14.8 11.3 5.1 7.6 3.5 46.9 84.5 22.6 3.6 0.5 26.7 13.2 0.1 4.0 3.0	0.7 15.0 12.3 5.7 8.6 3.7 50.7 93.1 23.2 3.4 0.5 27.1 12.8 0.1 4.0	0.7 15.2 13.5 5.9 8.3 3.9 52.2 95.2 23.7 3.5 0.5 27.8 13.2 0.1 3.9	0.7 14.3 12.6 5.6 8.2 3.8 49.8 91.9 23.8 3.6 0.5 27.9 13.5 0.1 4.0	0.7 15.0 13.5 5.8 8.3 4.1 51.9 94.3 23.3 3.6 0.5 27.4 13.4 0.1	0.7 15.7 12.9 5.9 8.5 4.0 52.3 96.3 24.3 3.1 0.5 27.8 13.7	0.7 15.7 12.6 6.2 8.9 3.9 53.0 98.8 24.4 3.4 0.5 28.3 13.7	0.8 15.7 13.7 6.2 8.4 4.1 53.9 100.7 25.3 3.4 0.5 29.2 14.3	0.7 15.5 13.2 6.0 8.5 4.0 52.8 97.5 24.3 3.4 0.5 28.2 13.8	0.7 15.5 13.8 6.0 8.5 4.2 53.3 98.8 24.7 3.3 0.5 28.6 14.4	0.7 15.1 13.8 6.0 8.6 4.2 52.7 98.2 25.4 3.2 0.5 29.1 12.5	0.8 16.0 13.3 6.2 9.0 4.1 53.7 100.0 26.2 3.2 0.5 29.9 11.5	0.8 16.0 13.9 6.2 8.5 4.2 54.0 100.4 26.6 3.4 0.5 30.5 11.7	0. 15. 13. 6. 8. 4. 53. 99. 25. 3. 0. 29.
China13.1Other Asia14.0Americas6.3Middle East8.7Africa4.2Total Non-OECD51.8Total Demand ¹ 99.5OECD SUPPLYAmericas23.0Europe3.5Asia Oceania0.4Total OECD ⁴ 26.9NON-OECD SUPPLYFSU14.6Europe0.1China3.8Other Asia3.4Americas5.1Middle East3.1Africa1.5Total Non-OECD ⁴ 31.6Processing gains ³ 2.4Global Biofuels2.7	13.9 14.0 6.3 8.7 4.2 52.7 100.5 24.8 3.4 0.5 28.6 14.6 0.1 3.9 3.3	12.2 13.5 5.8 8.4 4.1 49.3 94.9 25.9 3.7 0.5 30.1 14.8 0.1 4.0 3.2	14.8 11.3 5.1 7.6 3.5 46.9 84.5 22.6 3.6 0.5 26.7 13.2 0.1 4.0 3.0	15.0 12.3 5.7 8.6 3.7 50.7 93.1 23.2 3.4 0.5 27.1 12.8 0.1 4.0	15.2 13.5 5.9 8.3 3.9 52.2 95.2 23.7 3.5 0.5 27.8 13.2 0.1 3.9	14.3 12.6 5.6 8.2 3.8 49.8 91.9 23.8 3.6 0.5 27.9 13.5 0.1 4.0	15.0 13.5 5.8 8.3 4.1 51.9 94.3 23.3 3.6 0.5 27.4 13.4 0.1	15.7 12.9 5.9 8.5 4.0 52.3 96.3 24.3 3.1 0.5 27.8 13.7	15.7 12.6 6.2 8.9 3.9 53.0 98.8 24.4 3.4 0.5 28.3 13.7	15.7 13.7 6.2 8.4 4.1 53.9 100.7 25 .3 3.4 0.5 29.2 14.3	15.5 13.2 6.0 8.5 4.0 52.8 97.5 24.3 3.4 0.5 28.2 13.8	15.5 13.8 6.0 8.5 4.2 53.3 98.8 24.7 3.3 0.5 28.6 14.4	15.1 13.8 6.0 8.6 4.2 52.7 98.2 25.4 3.2 0.5 29.1 12.5	16.0 13.3 6.2 9.0 4.1 53.7 100.0 26.2 3.2 0.5 29.9 11.5	16.0 13.9 6.2 8.5 4.2 54.0 100.4 26.6 3.4 0.5 30.5 11.7	15. 13. 6. 8. 4. 53. 99. 25. 3. 0. 29.
Other Asia 14.0 Americas 6.3 Middle East 8.7 Africa 4.2 Total Non-OECD 51.8 Total Demand ¹ 99.5 OECD SUPPLY 7 Americas 23.0 Europe 3.5 Asia Oceania 0.4 Total OECD ⁴ 26.9 NON-OECD SUPPLY 14.6 Europe 0.1 China 3.8 Other Asia 3.4 Americas 5.1 Middle East 3.1 Africa 1.5 Total Non-OECD ⁴ 31.6 Processing gains ³ 2.4 Global Biofuels 2.7	14.0 6.3 8.7 4.2 52.7 100.5 24.8 3.4 0.5 28.6 14.6 0.1 3.9 3.3	13.5 5.8 8.4 4.1 49.3 94.9 3.7 0.5 30.1 14.8 0.1 4.0 3.2	11.3 5.1 7.6 3.5 46.9 84.5 22.6 3.6 0.5 26.7 13.2 0.1 4.0 3.0	12.3 5.7 8.6 3.7 50.7 93.1 23.2 3.4 0.5 27.1 12.8 0.1 4.0	13.5 5.9 8.3 3.9 52.2 95.2 23.7 3.5 0.5 27.8 13.2 0.1 3.9	12.6 5.6 8.2 3.8 49.8 91.9 23.8 3.6 0.5 27.9 13.5 0.1 4.0	13.5 5.8 8.3 4.1 51.9 94.3 23.3 3.6 0.5 27.4 13.4 0.1	12.9 5.9 8.5 4.0 52.3 96.3 24.3 3.1 0.5 27.8 13.7	12.6 6.2 8.9 3.9 53.0 98.8 24.4 3.4 0.5 28.3 13.7	13.7 6.2 8.4 4.1 53.9 100.7 25.3 3.4 0.5 29.2 14.3	13.2 6.0 8.5 4.0 52.8 97.5 24.3 3.4 0.5 28.2 13.8	13.8 6.0 8.5 4.2 53.3 98.8 24.7 3.3 0.5 28.6 14.4	13.8 6.0 8.6 4.2 52.7 98.2 25.4 3.2 0.5 29.1 12.5	13.3 6.2 9.0 4.1 53.7 100.0 26.2 3.2 0.5 29.9 11.5	13.9 6.2 8.5 4.2 54.0 100.4 26.6 3.4 0.5 30.5 111.7	 13. 6. 8. 4. 53 99 25. 3. 0. 29
Americas6.3Middle East8.7Africa4.2Total Non-OECD51.8Total Demand ¹ 99.5OECD SUPPLYAmericas23.0Europe3.5Asia Oceania0.4Total OECD ⁴ 26.9NON-OECD SUPPLYFSU14.6Europe0.1China3.8Other Asia3.4Americas5.1Middle East3.1Africa1.5Total Non-OECD ⁴ 31.6Processing gains ³ 2.4Global Biofuels2.7	6.3 8.7 4.2 52.7 100.5 24.8 3.4 0.5 28.6 14.6 0.1 3.9 3.3	5.8 8.4 4.1 49.3 94.9 25.9 3.7 0.5 30.1 14.8 0.1 4.0 3.2	5.1 7.6 3.5 46.9 84.5 22.6 3.6 0.5 26.7 13.2 0.1 4.0 3.0	5.7 8.6 3.7 50.7 93.1 23.2 3.4 0.5 27.1 12.8 0.1 4.0	5.9 8.3 3.9 52.2 95.2 23.7 3.5 0.5 27.8 13.2 0.1 3.9	5.6 8.2 3.8 49.8 91.9 23.8 3.6 0.5 27.9 13.5 0.1 4.0	5.8 8.3 4.1 51.9 94.3 23.3 3.6 0.5 27.4 13.4 0.1	5.9 8.5 4.0 52.3 96.3 24.3 3.1 0.5 27.8 13.7	6.2 8.9 3.9 53.0 98.8 24.4 3.4 0.5 28.3 13.7	6.2 8.4 4.1 53.9 100.7 25.3 3.4 0.5 29.2 14.3	6.0 8.5 4.0 52.8 97.5 24.3 3.4 0.5 28.2 13.8	6.0 8.5 4.2 53.3 98.8 24.7 3.3 0.5 28.6 14.4	6.0 8.6 4.2 52.7 98.2 25.4 3.2 0.5 29.1 12.5	6.2 9.0 4.1 53.7 100.0 26.2 3.2 0.5 29.9 11.5	6.2 8.5 4.2 54.0 100.4 26.6 3.4 0.5 30.5 11.7	6. 8. 4. 53. 99. 25. 3. 0. 29.
Middle East 8.7 Africa 4.2 Total Non-OECD 51.8 Total Demand ¹ 99.5 1 OECD SUPPLY Americas 23.0 Europe 3.5 Asia Oceania 0.4 Total OECD ⁴ 26.9 NON-OECD SUPPLY FSU 14.6 Europe 0.1 China 3.8 Other Asia A.4 Americas 5.1 Middle East 3.1 Africa 1.5 Total Non-OECD ⁴ 31.6 Processing gains ³ 2.4 Global Biofuels 2.7	8.7 4.2 55.7 100.5 24.8 3.4 0.5 28.6 14.6 0.1 3.9 3.3	8.4 4.1 49.3 94.9 25.9 3.7 0.5 30.1 14.8 0.1 4.0 3.2	7.6 3.5 46.9 84.5 22.6 3.6 0.5 26.7 13.2 0.1 4.0 3.0	8.6 3.7 93.1 23.2 3.4 0.5 27.1 12.8 0.1 4.0	8.3 3.9 52.2 95.2 23.7 3.5 0.5 27.8 13.2 0.1 3.9	8.2 3.8 49.8 91.9 23.8 3.6 0.5 27.9 13.5 0.1 4.0	8.3 4.1 51.9 94.3 23.3 3.6 0.5 27.4 13.4 0.1	8.5 4.0 52.3 96.3 24.3 3.1 0.5 27.8 13.7	8.9 3.9 53.0 98.8 24.4 3.4 0.5 28.3 13.7	8.4 4.1 53.9 100.7 25.3 3.4 0.5 29.2 14.3	8.5 4.0 52.8 97.5 24.3 3.4 0.5 28.2 13.8	8.5 4.2 53.3 98.8 24.7 3.3 0.5 28.6 14.4	8.6 4.2 52.7 98.2 25.4 3.2 0.5 29.1 12.5	9.0 4.1 53.7 100.0 26.2 3.2 0.5 29.9 11.5	8.5 4.2 54.0 100.4 26.6 3.4 0.5 30.5 11.7	8. 4. 53. 99. 25. 3. 0. 29.
Africa4.2Africa4.2Total Non-OECD51.8Total Demand¹99.5 1OECD SUPPLY99.5 1Americas23.0Europe3.5Asia Oceania0.4Total OECD⁴26.9NON-OECD SUPPLY14.6Europe0.1China3.8Other Asia3.4Americas5.1Middle East3.1Africa1.5Total Non-OECD⁴31.6Processing gains³2.4Global Biofuels2.7	4.2 52.7 100.5 24.8 3.4 0.5 28.6 14.6 0.1 3.9 3.3	4.1 49.3 94.9 25.9 3.7 0.5 30.1 4.0 3.2	3.5 46.9 84.5 22.6 3.6 0.5 26.7 13.2 0.1 4.0 3.0	3.7 50.7 93.1 23.2 3.4 0.5 27.1 12.8 0.1 4.0	3.9 52.2 95.2 23.7 3.5 0.5 27.8 13.2 0.1 3.9	3.8 49.8 91.9 23.8 3.6 0.5 27.9 13.5 0.1 4.0	4.1 51.9 94.3 23.3 3.6 0.5 27.4 13.4 0.1	4.0 52.3 96.3 24.3 3.1 0.5 27.8 13.7	3.9 53.0 98.8 24.4 3.4 0.5 28.3 13.7	4.1 53.9 100.7 25.3 3.4 0.5 29.2 14.3	4.0 52.8 97.5 24.3 3.4 0.5 28.2 13.8	4.2 53.3 98.8 24.7 3.3 0.5 28.6 14.4	4.2 52.7 98.2 25.4 3.2 0.5 29.1 12.5	4.1 53.7 100.0 26.2 3.2 0.5 29.9 11.5	4.2 54.0 100.4 26.6 3.4 0.5 30.5 11.7	4.3 53.4 99.4 25.3 3.3 0.3 29.5
Total Non-OECD51.8Total Demand¹99.51OECD SUPPLYAmericas23.0Americas23.03.5Asia Oceania0.40.4Total OECD⁴26.90.1China3.80.14China3.80.14Other Asia3.1Americas5.1Middle East3.1Africa1.5Total Non-OECD⁴31.6Processing gains³2.4Global Biofuels2.7	52.7 24.8 3.4 0.5 28.6 14.6 0.1 3.9 3.3	49.3 94.9 25.9 3.7 0.5 30.1 14.8 0.1 4.0 3.2	46.9 84.5 22.6 3.6 0.5 26.7 13.2 0.1 4.0 3.0	50.7 93.1 23.2 3.4 0.5 27.1 12.8 0.1 4.0	52.2 95.2 23.7 3.5 0.5 27.8 13.2 0.1 3.9	49.8 91.9 23.8 3.6 0.5 27.9 13.5 0.1 4.0	51.9 94.3 23.3 3.6 0.5 27.4 13.4 0.1	52.3 96.3 24.3 3.1 0.5 27.8 13.7	53.0 98.8 24.4 3.4 0.5 28.3 13.7	53.9 100.7 25.3 3.4 0.5 29.2 14.3	52.8 97.5 24.3 3.4 0.5 28.2 13.8	53.3 98.8 24.7 3.3 0.5 28.6 14.4	52.7 98.2 25.4 3.2 0.5 29.1 12.5	53.7 100.0 26.2 3.2 0.5 29.9 11.5	54.0 100.4 26.6 3.4 0.5 30.5 11.7	53. 99. 25. 3. 0. 29.
Total Demand¹99.5 1OECD SUPPLYAmericas23.0Europe3.5Asia Oceania0.4Total OECD ⁴ 26.9NON-OECD SUPPLYFSU14.6Europe0.1China3.8Other Asia3.4Americas5.1Middle East3.1Africa1.5Total Non-OECD ⁴ 31.6Processing gains³2.4Global Biofuels2.7	24.8 3.4 0.5 28.6 14.6 0.1 3.9 3.3	94.9 25.9 3.7 0.5 30.1 14.8 0.1 4.0 3.2	84.5 22.6 3.6 0.5 26.7 13.2 0.1 4.0 3.0	 93.1 23.2 3.4 0.5 27.1 12.8 0.1 4.0 	95.2 23.7 3.5 0.5 27.8 13.2 0.1 3.9	91.9 23.8 3.6 0.5 27.9 13.5 0.1 4.0	94.3 23.3 3.6 0.5 27.4 13.4 0.1	96.3 24.3 3.1 0.5 27.8 13.7	98.8 24.4 3.4 0.5 28.3 13.7	100.7 25.3 3.4 0.5 29.2 14.3	97.5 24.3 3.4 0.5 28.2 13.8	98.8 24.7 3.3 0.5 28.6 14.4	98.2 25.4 3.2 0.5 29.1 12.5	100.0 26.2 3.2 0.5 29.9 11.5	100.4 26.6 3.4 0.5 30.5 11.7	99. 25. 3. 0. 29 .
DECD SUPPLY Americas 23.0 Europe 3.5 Asia Oceania 0.4 Total OECD ⁴ 26.9 NON-OECD SUPPLY FSU 14.6 Europe 0.1 China 3.8 Other Asia 3.4 Americas 5.1 Middle East 3.1 Africa 1.5 Total Non-OECD ⁴ 31.6 Processing gains ³ 2.4 Global Biofuels 2.7	24.8 3.4 0.5 28.6 14.6 0.1 3.9 3.3	25.9 3.7 0.5 30.1 14.8 0.1 4.0 3.2	22.6 3.6 0.5 26.7 13.2 0.1 4.0 3.0	23.2 3.4 0.5 27.1 12.8 0.1 4.0	23.7 3.5 0.5 27.8 13.2 0.1 3.9	23.8 3.6 0.5 27.9 13.5 0.1 4.0	23.3 3.6 0.5 27.4 13.4 0.1	24.3 3.1 0.5 27.8 13.7	24.4 3.4 0.5 28.3 13.7	25.3 3.4 0.5 29.2 14.3	24.3 3.4 0.5 28.2 13.8	24.7 3.3 0.5 28.6 14.4	25.4 3.2 0.5 29.1 12.5	26.2 3.2 0.5 29.9 11.5	26.6 3.4 0.5 30.5 11.7	25. 3. 0. 29.
Americas23.0Europe3.5Asia Oceania0.4Total OECD ⁴ 26.9NON-OECD SUPPLY14.6Europe0.1China3.8Other Asia3.4Americas5.1Middle East3.1Africa1.5Total Non-OECD ⁴ 31.6Processing gains ³ 2.4Global Biofuels2.7	3.4 0.5 28.6 14.6 0.1 3.9 3.3	3.7 0.5 30.1 14.8 0.1 4.0 3.2	3.6 0.5 26.7 13.2 0.1 4.0 3.0	3.4 0.5 27.1 12.8 0.1 4.0	3.5 0.5 27.8 13.2 0.1 3.9	3.6 0.5 27.9 13.5 0.1 4.0	3.6 0.5 27.4 13.4 0.1	3.1 0.5 27.8 13.7	3.4 0.5 28.3 13.7	3.4 0.5 29.2 14.3	3.4 0.5 28.2 13.8	3.3 0.5 28.6 14.4	3.2 0.5 29.1 12.5	3.2 0.5 29.9 11.5	3.4 0.5 30.5 11.7	3.3 0.9 29. 9
Europe3.5Asia Oceania0.4Total OECD426.9NON-OECD SUPPLYFSU14.6Europe0.1China3.8Other Asia3.4Americas5.1Middle East3.1Africa1.5Total Non-OECD431.6Processing gains32.4Global Biofuels2.7	3.4 0.5 28.6 14.6 0.1 3.9 3.3	3.7 0.5 30.1 14.8 0.1 4.0 3.2	3.6 0.5 26.7 13.2 0.1 4.0 3.0	3.4 0.5 27.1 12.8 0.1 4.0	3.5 0.5 27.8 13.2 0.1 3.9	3.6 0.5 27.9 13.5 0.1 4.0	3.6 0.5 27.4 13.4 0.1	3.1 0.5 27.8 13.7	3.4 0.5 28.3 13.7	3.4 0.5 29.2 14.3	3.4 0.5 28.2 13.8	3.3 0.5 28.6 14.4	3.2 0.5 29.1 12.5	3.2 0.5 29.9 11.5	3.4 0.5 30.5 11.7	3.3 0.9 29. 9
Asia Oceania0.4Total OECD426.9NON-OECD SUPPLY14.6Europe0.1China3.8Other Asia3.4Americas5.1Middle East3.1Africa1.5Total Non-OECD431.6Processing gains32.4Global Biofuels2.7	0.5 28.6 14.6 0.1 3.9 3.3	0.5 30.1 14.8 0.1 4.0 3.2	0.5 26.7 13.2 0.1 4.0 3.0	0.5 27.1 12.8 0.1 4.0	0.5 27.8 13.2 0.1 3.9	0.5 27.9 13.5 0.1 4.0	0.5 27.4 13.4 0.1	0.5 27.8 13.7	0.5 28.3 13.7	0.5 29.2 14.3	0.5 28.2 13.8	0.5 28.6 14.4	0.5 29.1 12.5	0.5 29.9 11.5	0.5 30.5 11.7	0.8 29. 8
Total OECD426.9NON-OECD SUPPLYFSUFSULoinaOther AsiaAmericasOther AsiaAmericasS1Middle EastAfrica1.5Total Non-OECD4Processing gains32.4Global Biofuels2.7	28.6 14.6 0.1 3.9 3.3	30.1 14.8 0.1 4.0 3.2	26.7 13.2 0.1 4.0 3.0	27.1 12.8 0.1 4.0	27.8 13.2 0.1 3.9	27.9 13.5 0.1 4.0	27.4 13.4 0.1	27.8 13.7	28.3 13.7	29.2 14.3	28.2 13.8	28.6 14.4	29.1 12.5	29.9 11.5	30.5	29.
NON-OECD SUPPLY FSU 14.6 Europe 0.1 China 3.8 Other Asia 3.4 Americas 5.1 Middle East 3.1 Africa 1.5 Total Non-OECD ⁴ 31.6 Processing gains ³ 2.4 Global Biofuels 2.7	14.6 0.1 3.9 3.3	14.8 0.1 4.0 3.2	13.2 0.1 4.0 3.0	12.8 0.1 4.0	13.2 0.1 3.9	13.5 0.1 4.0	13.4 0.1	13.7	13.7	14.3	13.8	14.4	12.5	11.5	11.7	
FSU 14.6 Europe 0.1 China 3.8 Other Asia 3.4 Americas 5.1 Middle East 3.1 Africa 1.5 Total Non-OECD ⁴ 31.6 Processing gains ³ 2.4 Global Biofuels 2.7	0.1 3.9 3.3	0.1 4.0 3.2	0.1 4.0 3.0	0.1 4.0	0.1 3.9	0.1 4.0	0.1									12.
Europe0.1China3.8Other Asia3.4Americas5.1Middle East3.1Africa1.5Total Non-OECD ⁴ 31.6Processing gains ³ 2.4Global Biofuels2.7	0.1 3.9 3.3	0.1 4.0 3.2	0.1 4.0 3.0	0.1 4.0	0.1 3.9	0.1 4.0	0.1									12.
China3.8Other Asia3.4Americas5.1Middle East3.1Africa1.5 Total Non-OECD⁴31.6 Processing gains ³ 2.4Global Biofuels2.7	3.9 3.3	4.0 3.2	4.0 3.0	4.0	3.9	4.0		0.1	0.1	0.1	0.1	0.1	0.1	01		
Other Asia 3.4 Americas 5.1 Middle East 3.1 Africa 1.5 Total Non-OECD ⁴ 31.6 Processing gains ³ 2.4 Global Biofuels 2.7	3.3	3.2	3.0				4.1								0.1	0.1
Americas 5.1 Middle East 3.1 Africa 1.5 Total Non-OECD ⁴ 31.6 Processing gains ³ 2.4 Global Biofuels 2.7				2.9	20			4.1	4.1	4.0	4.1	4.2	4.3	4.2	4.2	4.
Middle East 3.1 Africa 1.5 Total Non-OECD ⁴ 31.6 Processing gains ³ 2.4 Global Biofuels 2.7	5.3	5.6				3.0	3.0	2.9	2.8	2.8	2.9	2.8	2.8	2.8	2.7	2.8
Africa 1.5 Total Non-OECD ⁴ 31.6 Processing gains ³ 2.4 Global Biofuels 2.7			5.1	5.4	5.2		5.3	5.3	5.4	5.2	5.3	5.4	5.5	5.7	5.8	5.0
Total Non-OECD ⁴ 31.6 Processing gains ³ 2.4 Global Biofuels 2.7	3.0	3.1	3.0	3.0	3.0	3.0	3.1	3.1	3.1	3.1	3.1	3.2	3.2	3.2	3.2	3.
Processing gains ³ 2.4 Global Biofuels 2.7	1.5	1.4	1.4	1.4	1.3	1.4	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
Global Biofuels 2.7	31.8 2.4	32.2 2.3	29.9 2.0	29.6 2.1	29.7 2.1	30.3 2.1	30.2 2.1	30.5	30.5 2.3	30.8 2.3	30.5 2.3	31.4 2.3	29.6 2.3	28.9 2.3	29.1 2.3	29. 7
	2.8	2.3	2.5	3.1	2.6	2.6	2.2	2.9	3.2	2.7	2.8	2.4	3.0	3.3	2.9	2.9
,	65.6	66.8	61.1	61.9	62.2	63.0	61.9	63.5	64.3	65.0	63.7	64.7	64.0	64.4	64.9	64.
OPEC ²		~~~~	05.0			05 7	05.4	05.0		07.0						
		28.2	25.6	24.1	24.9	25.7	25.4	25.6	27.0	27.8	26.4	28.5				-
NGLs 5.4	5.3	5.3	5.1	5.0	5.0	5.1	5.1	5.1	5.1	5.2	5.1	5.3	5.4	5.4	5.4	5.4
Total OPEC 36.8 Total Supply 100.3 1		33.5 100.3	30.6 91.7	29.1 90.9	30.0 92.2	30.8 93.8	30.4 92.4	30.7 94.2	32.1 96.4	33.0 98.0	31.5 95.3	33.7 98.4				
		100.5	91.7	90.9	92.2	93.0	92.4	94.2	90.4	90.0	95.5	90.4				
STOCK CHANGES AND MISCELLANEOUS	5															
Reported OECD			~ ~													
Industry 0.1 Government -0.1	0.1 0.0	1.0 0.0	2.6 0.3	-0.4 -0.1	-1.6 -0.1	0.4 0.0	-1.3 0.0	-0.5 -0.2	-1.3 -0.1	-1.2 -0.3	-1.1 -0.2	-0.2 -0.5				
	0.0	1.1	2.9	-0.5	-1.7	0.4	-1.3	-0.7	-1.4	-1.5	-1.2	-0.7				
Floating storage/Oil in transit 0.1	0.1	0.4	0.6	-2.0	1.0	0.0	-0.5	-0.5	-0.3	1.1	-0.1	-0.7				
Miscellaneous to balance ⁵ 0.6	0.0	3.9	3.8	0.4	-2.3	1.4	-0.1	-1.0	-0.6	-2.3	-1.0	1.1				
Total Stock Ch. & Misc 0.8	0.1	5.4	7.3	-2.1	-3.0	1.9	-2.0	-2.2	-2.4	-2.7	-2.3	-0.4				
Memo items: Call on OPEC crude + Stock ch. ⁶ 30.6 2	29.5 2	22.8	18 3	26.2	27 0	23.8	27.3	27 7	29.4	30 5	28.7	28.8	28 S	30.2	30.2	20 5
											20.1	20.0	20.0	JU.Z	JU.Z	29.0
 Measured as deliveries from refineries and primary stocks, o oil from non-conventional sources and other sources of supp 			veries, int	ternationa	al marine	bunkers, ref	inery fuel, c	rude for c	lirect burr	ning,						
2 OPEC data based on today's membership throughout the tin 3 Net volumetric gains and losses in the refining process and																

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					Tabl											
WORLD	OIL SUPF	PLY AND	DEN			ANGE	s froi	M LA	STI	MON	TH'S	TABLE	1			
	2018 2019	1020	2020	2020	4Q20	2020	1Q21 2	021 2	021	4024	2024	1Q22	2022	2022	4022	2022
	2010 2013	9 1920	2920	3420	40,20	2020		921 3	421	4921	2021	1922	2022	3922	4022	2022
OECD DEMAND Americas	-		-	-	-	-	-	-	-	-	-	0.1	-	-	-	-
Europe Asia Oceania	-	· ·	-	-	-	-	-	-	-	-	-	- -0.1	-	- -0.1	- -0.1	- -0.1
Total OECD	-		-	-	-	-	-	-	-	-	-	-	-	-0.1	-	-
NON-OECD DEMAND																
FSU Europe	-	· ·	-	-	-	-	-	-	-	-	-	-	-	-	-	-
China	-		-	-	-	-	-	-	-	-	-	0.1	-0.3	-	-	-0.1
Other Asia	-		-	-	-	-	-	-	-	-	-	-0.1	-	-0.1	-0.1	-0.1
Americas Middle East	-		-	-	-	-	-	-	-	0.1	-	0.1	-	-	-	-
Africa	-		-	-	-	-	-	-	-	-	-	0.1	-	-	-	-
Total Non-OECD	-		-	-	-	-	-	-	-	0.1	0.1	0.2	-0.2	-	-	-
Total Demand	-		-	-	-	-	-	-	-	0.1	0.1	0.2	-0.1	-0.1	-	-
OECD SUPPLY																
Americas	-		-	-	-	-	-	-	-	-	-	-0.2	-0.2	-	0.1	-0.1
Europe Asia Oceania	-		-	-	-	-	-	-	-		-	-	-0.2	-	-	-0.1 -
Total OECD	-		-	-	-	-	-	-	-	-	-	-0.3	-0.4	-	-	-0.2
NON-OECD SUPPLY																
FSU	-		-	-	-	-	-	-	-	-	-	-	0.7	-	-	0.2
Europe	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-
China Other Asia	-		-	-	-	-	-	-	-	-	-	-	0.1	0.1	0.1	-
Americas	-		-	-	-	-	-	-	-	-	-	-	-0.1	-0.1	-	-
Middle East	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-
Africa	-		-	-	-	•	-	•	-	-	-		-	-	-	-
Total Non-OECD	-		-	-	-	-	-	-	-	-	-	-	0.7	-	-	0.2
Processing gains Global Biofuels	-		-	-		-	-			-	-		-	-	-	-
Total Non-OPEC Supply	-		-	-	-	-	-	-	-	-	-	-0.3	0.3	-	0.1	-
OPEC																
Crude	-		-	-	-	-	-	-	-	-	-	0.1				
NGLs	-		-		-		-		-			-	-	-	-	-
Total OPEC	-		-	-	-	-	-	-	-	-	-	-				
Total Supply	-	-		-	-	-	-	-	-	-	-	-0.3				
STOCK CHANGES AND MISCEL	LANEOUS															
REPORTED OECD Industry	-		-	-	-	-	-	-	-	-	-					
Government	-		-	-	-	-	-	-	-	-	-					
Total	-		-	-	-	-	-	-	-	-	-					
Floating storage/Oil in transit Miscellaneous to balance	-					-	-	-	-	- -01	-					
Total Stock Ch. & Misc		· ·							-	-0.1 - 0.1	•	. O F				
TOTAL STOCK OIL & MISC	-		-	-	-	-	-	•	-	-0.1	-	-0.5				
Memo items:																
Call on OPEC crude + Stock ch.	-		-	-	-	-	-	-	-	0.1	0.1	0.5	-0.4	-0.1	-0.1	-

Note: When submitting monthly oil statistics, OECD member countries may update data for prior periods. Similar updates to non-OECD data can also occur.

DECD SUPPLY mericas ² iurope sia Oceania	99.5	100.5	94.9														
umericas ² urope isia Oceania			••	84.5	93.1	95.2	91.9	94.3	96.3	98.8	100.7	97.5	98.8	98.2	100.0	100.4	99.4
urope Isia Oceania																	
sia Oceania	20.9	22.8	23.9	20.7	21.3	21.8	21.9	21.4	22.3	22.4	23.3	22.4	22.7	23.4	24.2	24.6	23.7
	3.5	3.4	3.7	3.6	3.4	3.5	3.6	3.6	3.1	3.4	3.4	3.4	3.3	3.2	3.2	3.4	3.3
otal OECD (non-OPEC+)	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
	24.8	26.7	28.1	24.8	25.2	25.9	26.0	25.5	25.9	26.4	27.2	26.2	26.6	27.1	27.9	28.5	27.5
ION-OECD SUPPLY																	
SU ³	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3
urope	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
China	3.8	3.9	4.0	4.0	4.0	3.9	4.0	4.1	4.1	4.1	4.0	4.1	4.2	4.3	4.2	4.2	4.2
Other Asia ⁴	2.6	2.5	2.4	2.3	2.3	2.3	2.3	2.2	2.2	2.2	2.1	2.2	2.1	2.1	2.1	2.0	2.1
atin America	5.1	5.3	5.6	5.1	5.4	5.2	5.3	5.3	5.3	5.4	5.2	5.3	5.4	5.5	5.7	5.8	5.6
1iddle East ⁵	1.9	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	1.9
frica ⁶	1.2	1.2	1.2	1.2	1.2	1.1	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
otal Non-OECD (non-OPEC+)	15.1	15.3	15.5	14.9	15.1	14.8	15.1	15.1	15.1	15.2	14.8	15.0	15.2	15.3	15.5	15.5	15.4
rocessing Gains	2.4	2.4	2.3	2.0	2.1	2.1	2.1	2.1	2.2	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
Blobal Biofuels	2.7	2.8	2.3	2.5	3.1	2.6	2.6	2.2	2.9	3.2	2.7	2.8	2.4	3.0	3.3	2.9	2.9
otal Non-OPEC+	44.9	47.2	48.2	44.3	45.5	45.4	45.9	44.9	46.1	47.0	47.0	46.3	46.5	47.7	49.0	49.2	48.1
PEC+ CRUDE																	
Igeria	1.0	1.0	1.0	0.9	0.8	0.9	0.9	0.9	0.9	0.9	1.0	0.9	1.0	1.0	1.0	1.0	1.0
ingola	1.5	1.4	1.4	1.3	1.2	1.2	1.3	1.1	1.1	1.1	1.1	1.1	1.2	1.1	1.1	1.1	1.1
zerbaijan	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
lahrain	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Irunei	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Congo	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
quatorial Guinea	0.1	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.0	0.1	0.1	0.0	0.0	0.0	0.1
Sabon	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.2	0.1	0.2	0.2	0.1	0.1	0.1	0.2
an	3.6	2.4	2.0	1.9	2.0	2.1	2.0	2.3	2.4	2.5	2.5	2.4	2.6	2.6	2.6	2.6	2.6
aq	4.6	4.7	4.6	4.1	3.7	3.8	4.0	3.9	3.9	4.1	4.2	4.0	4.3	4.4	4.6	4.7	4.5
ay azakhstan	1.6	1.6	4.0	1.5	1.4	1.4	4.0	1.5	1.5	1.4	4.2	4.0	4.5	1.4	4.0	1.6	1.6
luwait	2.7	2.7	2.7	2.4	2.2	2.3	2.4	2.3	2.4	2.4	2.5	2.4	2.6	2.7	2.8	2.8	2.7
ibya	1.0	1.1	0.3	0.1	0.1	0.9	0.4	1.2	1.2	1.2	1.1	1.1	1.1	1.0	1.2	1.2	1.1
	0.5	0.5	0.5	0.1	0.1	0.9	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
lalaysia laviaa		1.7	1.7		1.6				1.7			1.7				1.7	1.7
lexico	1.8 1.6	1.7	1.7	1.6 1.6	1.0	1.6 1.3	1.7 1.5	1.7 1.4	1.7	1.7 1.3	1.7 1.2	1.7	1.6 1.3	1.6 1.3	1.7 1.4	1.7	1.3
ligeria Oman	0.9	0.8	0.9	0.8	0.7	0.7	0.8	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.9	0.9	0.8
lussia	10.9	10.4	10.9	0.8 9.2	8.9	9.1	0.8 9.4	9.3	9.5	9.7	10.0	0.8 9.6	10.0	0.8 8.4	7.2	7.3	8.2
audi Arabia	10.4	9.9	9.8	9.3	8.8	9.0	9.4	8.5	8.6	9.6	9.9	9.2	10.0	10.5	10.9	11.0	10.7
outh Sudan	0.1	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.0	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.1
Sudan	0.1	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.1
IAE	3.0	3.2	3.2	2.9	2.8	2.5	2.9	2.7	2.7	2.8	2.9	2.8	3.0	3.0	3.1	3.2	3.1
/enezuela	3.0 1.4	0.9	0.8	0.5	0.4	0.4	0.5	0.5	0.5	0.6	0.8	0.6	0.7	0.8	0.8	0.8	0.7
	47.8	45.9	44.6	40.2	38.2	39.3	40.6	40.0	40.5	42.0	43.3	41.5	44.0	42.8	42.7	43.1	43.1
PEC+ NGLs & Condensate	7.4	7.4	7.4	7.1	7.1	7.3	7.2	7.4	7.4	7.3	7.5	7.4	7.7	7.8	7.9	8.0	7.9
PEC+ Nonconventionals	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1
	55.3	53.4	52.1	47.5	45.4	46.7	47.9	47.5	48.0	49.4	51.0	49.0	51.9	50.7	50.7	51.2	51.1
	100.3	100.6	100.3	91.7	90.9	92.2	93.8	92.4	94.2	96.4	98.0	95.3	98.4	98.4	99.7	100.4	99.2
		100.0	100.3	31.1	30.3	32.2	33.0	32.4	34.2	30.4	30.0	33.5	30.4	30.4	33.1	100.4	33.4
lemo items:																	
Call on OPEC+ crude + Stock ch	47.0	45.8	39.1	33.0	40.3	42.3	38.7	42.0	42.7	44.4	46.0	43.8	44.4	42.6	43.0	43.1	43.3
From May 2022, OPEC+ supply reflects latest	t OPEC+	deal and indivi	dual country's	sustainabl	le capacity.	Libya, Iran	, Venezuela h	ield at most	recent leve	el through 2	022.						

Unimate view Unimate view View<								Table 2	2								
Demand (mbd) wearcing is 253 2.4.0 19.8 27.0 23.1 2.29 (24.3 2.4.3 2.4.8 25.6 24.7 2.4.4 2.47 2.5.6 24.8 2 sampe 14.31 13.3 1100 12.7 12.51 12.40 11.0 12.8 13.8 13.8 13.0 13.0 13.0 13.0 13.8 13.8 13.8 13.8 13.0 13.0 13.0 13.0 13.8 13.8 13.8 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0					SU	MMA	RY OF			. DEM	AND						
mereca: 2553 94-40 1989 270 21.3 25.60 24.20 24.30 26.50 14.20 13.80 13		2019	1Q20	2Q20	3Q20	4Q20	2020	1Q21	2Q21	3Q21	4Q21	2021	1Q22	2Q22	3Q22	4Q22	2022
image 14.31 13.33 11.02 12.87 <t< td=""><td>· · · ·</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	· · · ·																
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thran tarpop4.244.123.473.743.913.914.083.983.944.144.044.074.154.060.424.70Teal No-CCCD52.6849.2945.0950.7457.1857.2957.2057.																	6.10
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Dund State Part Part <t< td=""><td>Vorld</td><td>100.46</td><td>94.88</td><td>84.50</td><td>93.06</td><td>95.18</td><td>91.92</td><td>94.34</td><td>96.32</td><td>98.79</td><td>100.66</td><td>97.55</td><td>98.77</td><td>98.18</td><td>100.00</td><td>100.43</td><td>99.35</td></t<>	Vorld	100.46	94.88	84.50	93.06	95.18	91.92	94.34	96.32	98.79	100.66	97.55	98.77	98.18	100.00	100.43	99.35
Europe hws ² 8.0 7.62 7.52 7.41 7.51 7.67 7.67 7.62 7.82 7.32 7.35 7.67	of which:																
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Russia 1.5.7 3.5.2 3.08 3.58 3.76 3.76 3.76 3.62 3.92 3.93 2.37 3.84 3.47 3.24 3.54 3.35 3.01 3.03 3.01 3.03 3.01 3.03 3.01 3.03 3.04 3.75 3.42 3.55 3.24 2.35 2.30 2.30 2.30 3.20 3.20 2.20																	5.01
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Canada 2.81 2.51 2.91 2.30 2.24 2.26 2.40 2.50 <	Brazil	3.08	2.95	2.64	2.99		2.93	2.97	2.98	3.19	3.12	3.07	2.98	3.01	3.09	3.11	3.05
Kone2.502.502.502.502.702.742.552.502.702.742.552.502.502.702.742.552.502.502.702.707.717.747.757.147.747.747.747.747.757.717.757.717.747.747.747.757.747.757.747.747.757.747.757.747.747.747.757.747.757.747.747.747.747.757.747																	3.47
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Imericas 0.5 3.4 -21.2 -1.2 -1.2 -1.5 -1.0 -6.5 -22.0 9.4 8.3 7.6 7.3 1.6 0.9 -0.3 Visia Oceania -1.0 -6.0 -12.5 -12.5 -17.5 11.1 5.2 10.0 -2.5 6.7 5.4 6.4 3.8 3.3 1.1 -0.7 Visia Oceania -0.1 -4.5 -0.2 -1.2 -1.1 11.8 3.3 2.2 3.9 2.8 1.0 1.0 0.4 Visia 3.6 -4.7 -5.8 -1.1 11.8 3.3 2.4 2.3 7.0 1.0 0.4 1.3 3.3 2.7 -0.4 1.1 1.8 3.3 4.4 3.0 0.1 1.1 1.8 3.3 4.4 3.0 1.4 1.3 1.4 2.3 1.1 3.5 3.3 6.0 2.6 1.1 3.3 1.1 3.3 4.0 1.0 1.4	% of World	70.3%	70.4%	71.3%	71.1%	71.3%	71.0%	71.0%	71.3%	71.4%	71.2%	71.2%	71.3%	70.7%	71.0%	71.1%	71.0%
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Fordal OECD 0.1 4.5 -0.3 -12.5 -10.2 -11.8 -7.0 17.2 8.2 8.8 6.3 7.3 3.3 1.1 -0.7 Isia 3.0 -6.7 -6.9 -1.4 0.18 3.3 2.2 6.5 2.8 1.0 1.0 0.4 Minericas 0.6 -6.4 -19.6 -10.3 -6.7 1.08 0.4 1.6 3.3 2.2 2.9 2.8 1.0 0.0 0.4 7.3 2.3 2.7 -0.4 0.11 Store 5.8 1.6 1.19 4.8 3.8 4.8 0.2 1.4 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.4 1.15 4.5 3.3 6.0 2.6 0.8 1.4 0.2 0.0 0.0 0.0 0.2 0.0 0.2 0.0 0.2 0.0 0.2 0.0 0.2 0.0 0.2 0.0 0.2 0.0	Europe	0.0	-5.4	-22.8	-12.7	-11.6	-13.1	-10.6	14.7	7.5	11.1	5.2	10.0	6.7	0.0	-1.9	3.3
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Fortal Non-OECD 1.8 -4.9 -10.7 -4.3 -2.2 -5.5 5.4 11.5 4.5 3.3 6.0 2.6 0.8 1.4 0.2 Annual Change (mb/d)	Africa	0.8	-4.2	-19.0	-9.6	-8.0	-10.2	-1.1	14.8	5.5	5.7	5.9	2.8	4.2	3.0	1.8	2.9
Nord 1.0 4.7 1.53 8.2 5.9 8.5 0.6 1.40 6.2 5.8 6.1 4.7 1.9 1.2 0.2 Annual Change (mb/c)																	1.3
Annual Change (mb/d) Annual Change (mb/d) Americas 0.12 -0.87 5.39 -3.20 -2.44 -2.98 -1.58 4.40 2.13 1.91 1.72 1.66 0.39 0.22 -0.06 0.00 Sia Oceania -0.08 -0.50 -0.55 -0.78 -0.01 0.44 0.36 0.47 0.23 0.21 0.27 0.00 0.05 Isia 0.80 -1.83 -0.39 -0.26 -0.86 -0.59 -0.45 -0.46 -5.65 -3.19 6.45 3.46 3.77 2.64 3.08 1.45 0.49 -0.32 1.45 0.49 -0.32 0.18 0.32 0.23 0.08 0.99 0.14 0.32 0.23 0.08 0.99 0.14 0.45 0.46 0.44 0.44 0.44 0.44 0.44 0.44 0.45 0.51 0.22 0.21 0.17 1.30 0.16 0.33 0.01 0.05 0.51 0.22 0.22																	1.2
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Asia Oceania -0.08 -0.09 -0.95 -0.78 -0.80 -0.19 0.44 0.36 0.47 0.27 0.23 0.21 0.27 0.00 0.00 Orbat OCCD 0.05 -2.14 9.59 -6.02 -4.86 -5.65 -3.19 6.45 3.46 3.77 2.64 3.08 1.45 0.49 0.32 0.81 0.32 0.98 0.48 0.01 0.13 0.96 0.51 -0.41 -0.09 0.83 0.48 0.25 0.40 0.13 0.16 -0.03 0.01 0.08 0.99 0.44 0.50 0.44 -0.50 0.09 0.83 0.48 0.25 0.40 0.13 0.16 -0.03 0.01 0.03 0.18 -0.22 0.22 0.22 0.12 0.17 0.17 0.17 0.17 0.17 0.10 0.01 0.01 0.03 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01<																	0.55
Fortal OECD 0.05 -2.14 -9.59 -6.02 -4.86 -5.65 -3.19 6.45 3.46 3.77 2.64 3.08 1.45 0.49 -0.32 1 Isia 0.80 -1.86 -1.93 -0.39 0.26 -0.98 2.77 2.49 1.03 0.72 1.75 0.81 0.32 0.08 0.09 0.44 0.43 0.66 -0.41 -0.50 -0.09 0.89 0.29 0.18 0.32 0.23 0.08 0.02 0.83 0.48 0.25 0.40 0.13 0.16 -0.03 0.01 0.05 0.51 0.21 0.22 0.22 0.12 0.17 0.12 0.07 0.07 0.07 0.01 0.06 0.03 0.04 -0.13 0.05 0.07 0.01 0.06 0.03 0.04 0.13 0.16 -0.52 0.57 0.21 0.22 0.22 0.12 0.17 0.12 0.07 0.07 0.07 0.07 0.0																	0.44 0.18
Asia 0.80 -1.86 -1.93 -0.39 0.26 -0.98 2.77 2.49 1.03 0.72 1.75 0.81 0.32 0.98 0.48 0.44 Middle East -0.01 -0.13 -0.96 -0.51 -0.41 -0.50 -0.09 0.89 0.29 0.18 0.32 0.23 0.08 0.09 0.44 0.07 Americas 0.04 -0.40 -1.23 -0.66 -0.43 -0.68 0.02 0.83 0.48 0.22 0.20 0.12 0.11 0.01 0.03 0.01 0.03 0.02 0.01 0.05 0.21 0.22 0.22 0.12 0.17 0.12 0.07 0.05 Surpe 0.03 -0.04 -0.13 -0.08 -0.55 -0.07 0.01 0.06 0.03 0.01 0.03 0.01 0.02 0.01 0.01 0.03 0.02 0.01 0.01 0.03 0.02 0.01 0.01 0.01 0.01 0.01 0.03 0.01 0.02 0.02 0.02 0.02 0.02<																	1.16
Americas 0.04 -0.40 -1.23 -0.66 -0.43 -0.68 0.02 0.83 0.48 0.25 0.40 0.13 0.16 -0.03 0.01 CSU FSU 0.04 0.07 -0.55 -0.24 -0.19 -0.23 -0.01 0.58 0.24 0.32 0.28 0.06 -0.34 -0.45 -0.52 -0.2 Europe 0.03 -0.04 -0.13 -0.08 -0.05 0.01 0.01 0.03 0.01 0.01 0.01 0.01 0.01 0.03 -0.01 0.06 0.30 0.01 0.02 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.03 0.01 0.03 0.01 0.03 0.01 0.03 0.01 0.03 0.01 0.03 0.01 0.03 0.01 0.03 0.01 0.03 0.01 0.03 0.01 0.03 0.01 0.03 0.01 0.03 0.01 0.03 0.01 0.01 0.01 0.03 0.00 0.00 0.00 0.00																	0.65
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Africa 0.03 -0.18 -0.82 -0.40 -0.33 -0.43 -0.05 0.51 0.21 0.22 0.22 0.12 0.17 0.12 0.07 0.01 0.06 0.03 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 <td></td> <td>0.07</td>																	0.07
Europe 0.03 -0.04 -0.13 -0.08 -0.07 0.01 0.06 0.03 0.01 0.03 0.00 0.02 0.01 0.01 0.03 Total Non-OECD 0.93 -2.54 -5.62 -2.27 -1.15 -2.89 2.65 5.37 2.27 1.71 3.00 1.35 0.41 0.72 0.09 0 World 0.98 -4.68 -15.21 -8.29 -6.01 -8.54 -0.54 11.83 5.73 5.48 5.63 4.43 1.85 1.21 -0.03 1.01 Avericas 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.01 0.01 0.01 0.01 0.00 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-0.31</td></t<>																	-0.31
Total Non-OECD 0.93 -2.54 -5.62 -2.27 -1.15 -2.89 2.65 5.37 2.27 1.71 3.00 1.35 0.41 0.72 0.09 0 Norld 0.98 -4.68 -15.21 -8.29 -6.01 -8.54 -0.54 11.83 5.73 5.48 5.63 4.43 1.85 1.21 -0.23 1 Revisions to Oil Demand from Last Month's Report (mb/d) Europe 0.00																	0.12
Norld 0.98 -4.68 -15.21 -8.29 -6.01 -8.54 -0.54 11.83 5.73 5.48 5.63 4.43 1.85 1.21 -0.23 1 Revisions to Oil Demand from Last Month's Report (mb/d) Surge 0.00 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>0.64</td></td<>																	0.64
Revisions to Oil Demand from Last Month's Report (mb/d) Americas 0.00 0																	1.80
Europe 0.00 <	Revisions to Oil De	mand fron	n Last M	onth's I	Report (mb/d)											
Asia Oceania 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 -																	0.04
Fortal OECD - - - - 0.00 -0.00 -0.01 0.00 0.01 0.01 0.01 -0.09 -0.04 -0.00 -0.00 0.01 0.00 0.01 -0.09 -0.04 -0.09 -0.04 -0.00 -0.01 0.01																	0.00 -0.06
Asia 0.01 0.00																	-0.00
Middle East 0.00 <td></td> <td>-0.02</td>																	-0.02
SU 0.00 0																	0.03
Mirica -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 0.03 0.00 0.07 0.04 0.03 </td <td></td> <td>0.04</td>																	0.04
Europe 0.00 0.01 0.01 0.01 <																	0.01
Total Non-OECD 0.02 0.03 0.03 0.03 0.03 0.03 0.03 0.12 0.05 0.19 -0.16 -0.01 0.00 0 Vorid 0.02 0.03 0.03 0.03 0.03 0.03 0.03 0.12 0.05 0.19 -0.16 -0.01 0.00 0 Revisions to Oil Demand Growth from Last Month's Report (mb/d) Vorid 0.01 0.00 0.01 0.01 0.01 0.00 0.00 0.00 0.03 0.10 0.03 0.20 -0.18 -0.12 -0.16 -0.16 -0.10 -0.03 -0.03 -0.03 -0.03 -0.03 -0.03 -0.03 -0.04 -0.04 -0.04 -0.03 -0.10 -0.03 -0.10 -0.03 -0.10 -0.16 -0.16<																	0.04
Vorid 0.02 0.03 0.01 0.05 0.23 -0.15 -0.10 -0.03 -0.03 -0.03 -0.03 -0.03 -0.03 -0.03 -0.03 -0.03 -0.03 -0.04 -0.03 -0.05 -0.10 -0.03 -0.03 -0.04 -0.03 -0.05 -0.10 -0.03 -0.05 -0.10 -0.03 -0.05 -0.10 -0.03 -0.05 -0.10 -0.03 -0.10 -0.03 -0.10 -0.10 -0.10 -0.10 -0.10 -0.10 -0.10 -0.10 -0.10 -0.10 -0.10 -0.10 -0.11 -0.10 -0.11 -0.11 -0.11 -0.11 -0.11 -0.11 -0.11 -0.11 -0.11 -0.11 -0.11 -0.11 -0.11 -0.11 -0.11 -0.11																	0.00
Revisions to Oil Demand Growth from Last Month's Report (mb/d) Norld 0.01 0.00 0.00 0.01 0.01 0.01 0.00 0.00 0.00 0.10 0.03 0.20 -0.18 -0.12 -0.16 -0																	0.01
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							· ·	0.00	0.00	0.00	0.40	0.03	0.00	0.40	0.40	0.16	0.07
			0.00	0.00	0.01	0.01	0.01	0.00	0.00	0.00	0.10	0.03	0.20	-0.18	-0.12	-0.16	-0.07

								Latest m	onth vs.
2020 2021	1Q21	2Q21	3Q21	4Q21	Dec 21	Jan 22	Feb 22 ²	Jan 22	Feb 21
Americas									
LPG and ethane 3.56 3.71	3.71	3.58	3.59	3.94	4.44	4.53	4.28	-0.25	0.95
Naphtha 0.25 0.25	0.23	0.27	0.26	0.24	0.28	0.24	0.19	-0.04	0.00
Motor gasoline 9.55 10.34	9.45	10.57	10.73	10.58	10.63	9.47	10.22	0.75	1.05
Jet and kerosene 1.23 1.55	1.28	1.48	1.72	1.72	1.77	1.65	1.62	-0.02	0.38
Gasoil/diesel oil 4.93 5.08	5.08	5.05	5.02	5.16	5.07	5.19	5.41	0.22	0.37
Residual fuel oil 0.40 0.53	0.52	0.49	0.54	0.58	0.61	0.55	0.54	-0.01	0.03
Other products 2.64 2.82	2.55	2.93	2.96	2.83	2.70	2.60	2.78	0.18	0.50
Total 22.56 24.27	22.82	24.38	24.83	25.05	25.50	24.22	25.04	0.82	3.29
Europe									
LPG and ethane 1.08 1.09	1.12	1.06	1.10	1.07	1.14	1.02	1.19	0.17	0.08
Naphtha 1.07 1.14	1.23	1.02	1.11	1.19	1.19	1.27	1.21	-0.05	-0.04
Motor gasoline 1.75 1.92	1.57	1.92	2.19	2.01	1.98	1.73	1.93	0.19	0.39
Jet and kerosene 0.73 0.84	0.61	0.67	1.01	1.05	1.08	0.94	1.00	0.06	0.36
Gasoil/diesel oil 5.96 6.26	5.70	6.13	6.52	6.69	6.56	5.64	6.44	0.80	0.62
Residual fuel oil 0.68 0.70	0.69	0.69	0.73	0.71	0.73	0.74	0.71	-0.03	0.04
Other products 1.15 1.13	1.00	1.14	1.19	1.17	1.04	1.04	1.08	0.03	0.09
Total 12.43 13.08	11.91	12.63	13.85	13.90	13.72	12.38	13.55	1.17	1.53
Asia Oceania									
LPG and ethane 0.78 0.79	0.86	0.77	0.73	0.79	0.91	0.95	1.01	0.06	0.13
Naphtha 1.82 1.99	1.97	1.86	2.02	2.09	2.20	2.06	1.92	-0.14	-0.09
Motor gasoline 1.35 1.36	1.32	1.37	1.36	1.40	1.49	1.30	1.32	0.01	-0.05
Jet and kerosene 0.61 0.61	0.82	0.47	0.43	0.72	0.94	0.97	0.94	-0.03	0.09
Gasoil/diesel oil 1.79 1.83	1.82	1.82	1.77	1.92	2.03	1.83	1.93	0.00	0.00
Residual fuel oil 0.43 0.46	0.50	0.41	0.44	0.49	0.52	0.56	0.51	-0.05	-0.01
Other products 0.35 0.37	0.37	0.35	0.36	0.40	0.46	0.35	0.44	0.09	0.06
Total 7.14 7.41	7.66	7.04	7.11	7.82	8.54	8.03	8.07	0.05	0.14
OECD									
	F 70	F 44	F 40	F 00	C 40	0.50	0.40	0.00	1.10
LPG and ethane 5.43 5.59	5.70	5.41 2.15	5.43	5.80	6.49 2.67	6.50 2.56	6.48	-0.02	1.16
Naphtha 3.14 3.37 Mater geoding 12.66 12.62	3.43	3.15	3.38	3.52	3.67	3.56	3.33	-0.23	-0.14
Motor gasoline12.6613.62Jet and kerosene2.573.00	12.34 2.70	13.86 2.62	14.29 3.16	13.99 3.49	14.11 3.78	12.51 3.55	13.47 3.56	0.95 0.01	1.38 0.83
	2.70 12.61						3.56 13.78		
Gasoil/diesel oil 12.68 13.17 Residual fuel oil 1.50 1.70	12.01	13.00 1.59	13.30 1.71	13.77 1.79	13.66 1.86	12.66 1.85	13.78	1.12 -0.09	1.00 0.06
Other products 4.14 4.32	3.91	4.42	4.52	4.41	4.20	3.99	4.29	-0.09	0.06
Total 42.13 44.76	42.40	44.05	45.79	46.77	4.20	44.62	46.66	2.04	4.96

Demand, measured as deliveries from refineries and primary stocks, comprises inland deliveries, international bunkers and refinery fuel. It includes crude for direct burning, oil from non-conventional sources and other sources of supply. Jet/kerosene comprises jet kerosene and non-aviation kerosene. Gasoil comprises diesel, light heating oil and other gasoils. North America comprises US 50 states, US territories, Mexico, Canada and Chile.
 Latest official OECD submissions (MOS).

United Status ² Z74 2.85 2.76 2.71 3.07 3.60 3.62 3.44 -0.16 1.02 Nophta 0.18 0.19 0.16 0.21 0.20 0.16 0.14 -0.60 0.05 Let and knownen 1.08 1.39 1.34 1					Та	able 2b						
2020 2021 1021 2021 <th< th=""><th></th><th></th><th>OIL I</th><th>DEMAND IN</th><th></th><th></th><th></th><th>COUNTRIE</th><th>S¹</th><th></th><th></th><th></th></th<>			OIL I	DEMAND IN				COUNTRIE	S ¹			
United Status ² 274 2.65 2.76 2.73 3.07 3.60 3.62 3.44 -0.16 1.02 Nophta 0.16 0.16 0.21 0.20 0.16 0.14 0.16 0.14 0.06 0.07 0.16 0.14 0.16 0.16 0.14 0.06 0.05 0.16 0.14 0.16 0.01 0.05											Latest m	onth vs.
LPG and ethanne 2.74 2.85 2.76 2.73 3.07 3.60 3.62 3.46 -0.16 1.01 0.10 Mator gascinar 6.16 6.14 0.17 6.13 6.21 0.61 0.41 0.02 0.61 0.41 0.02 0.61 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.02 0.01 0.		2020	2021	1Q21	2Q21	3Q21	4Q21	Dec 21	Jan 22	Feb 22 ²	Jan 22	Feb 21
Naphima 0.18 0.18 0.21 0.16 0.16 0.16 0.016 0.03	United States ³											
Molor gescoline 6.00 8.00 9.07 9.13 8.66 7.86 8.60 0.62 0.63 Generic derine 1.08 1.14 1.34 1.34 1.44 1.40 0.38 1.44 1.40 0.38 0.3												1.02
Idd and Krosene 1.08 1.28 1.41 1.53 1.44 1.40 0.03 0.23 Secoliditati oli 0.71 0.21 0.23 0.22 0.23 0.24 0.23 0.24 0.20 0.23 0.25 0.24 0.27 0.25 0.24 0.27 0.25 0.24 0.27 0.25 0.24 0.27 0.25 0.27 0.05 0.05 0.07 0.05 0.05 0.07 0.05 0.05 0.07 0.05 0.05 0.07 0.05 0.05 0.05 0.07 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0												
Residual fuel oil 0.21 0.21 0.23 0.23 0.23 0.23 0.24 2.30 0.36 <td>Jet and kerosene</td> <td></td>	Jet and kerosene											
Other productis 2,13 2,13 2,14 2,30 0,19 0,49 Total 18,19 19,78 18,45 20,03 0,21 0,21 2,23 2,11 2,30 0,19 0,70 2,39 Japan U <thu< th=""> U U U</thu<> <td>Gasoil/diesel oil</td> <td></td> <td>0.23</td>	Gasoil/diesel oil											0.23
Total 18.45 19.76 19.76 20.76 19.73 20.44 0.70 2.93 LPG and ethane 0.41 0.42 0.50 0.40 0.77 0.43 0.51 0.52 0.64 0.07 0.78 0.68 0.69 0.00 0.05 LPG and ethane 0.46 0.56 0.24 0.71 0.78 0.78 0.80 0.66 0.68 0.00												
Japan												
LPG and ethane 0.41 0.42 0.50 0.40 0.37 0.43 0.51 0.52 0.54 0.02 0.03 Motor gasoline 0.76 0.74 0.71 0.78 0.76 0.80 0.69 0.00 0.65 Let and herossen 0.36 0.36 0.55 0.24 0.21 0.45 0.81 0.43 0.45 0.23 0.45 0.26 0.36 0.43 0.30 0.28 0.26 0.30 0.28 0.30 0.28 0.30 0.28 0.30 0.28 0.30 0.28 0.30 0.28 0.30 0.28 0.30 0.28 0.27 0.31 0.28 0.27 0.21 0.28 0.31 0.32 0.36 0.37 0.34 0.35 0.31 0.32 0.36 0.37 0.33 0.39 0.01 0.01 0.05 0.06 0.05 0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.06		18.19	19.78	18.45	20.03	20.21	20.41	20.76	19.73	20.44	0.70	2.99
Naphtha 0.66 0.73 0.74 0.68 0.70 0.79 0.83 0.72 0.65 <		0.41	0.42	0.50	0.40	0.27	0.42	0.51	0.52	0.54	0.02	0.02
Michor gasoline 0.76 0.74 0.71 0.78 0.76 0.00 0.05 0.04 0.05 0.04 0.06												
Diesel 0.40 0.41 0.39 0.42 0.44 0.43 0.35 0.42 0.041 0.030 0.030 0.035 0.23 0.23 0.23 0.23 0.23 0.23 0.23 0.25 0.28 0.28 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.02 Other products 0.30 0.24 0.27 0.21 0.24 0.28 0.28 0.28 0.28 0.28 0.03 0.07 0.00 Other products 0.11 0.12 0.12 0.13 0.12 0.11 0.11 0.11 0.00 -0.01 Moder gascinine 0.45 0.45 0.44 0.48 0.46 0.44 0.42 0.03 0.01 Diet and kersene 0.01 0.13 0.09 0.11 0.16 0.15 0.01 0.01 0.00 0.01 0.01 0.00 0.01 0.01 0.01 0.01 0.02 0.02 0.02 0.02<	Motor gasoline											
Other gesoli 0.30 0.31 0.35 0.28 0.27 0.32 0.37 0.35 0.38 0.03 0.03 0.03 0.03 0.03 0.02 Other products 0.20 0.22 0.23 0.23 0.22 0.28 0.39 0.28 0.07 0.01 Contal 3.33 3.42 3.78 3.08 3.18 3.67 4.14 3.00 3.87 0.07 0.04 Carmany U 12 13 0.12 0.11 0.11 0.11 0.10 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.03 0.06 0.05 0.06 0.05 0.06 0.05 0.06 0.05 0.06 0.05 0.06 0.05 0.06 0.05 0.06 0.06 0.07 0.04 0.03 0.01 0.06 0.05 0.06 0.05 0.06 0.05 0.06 0.05 0.06 0.05 0.06 0.05 0.06	Jet and kerosene											
Resida 0.21 0.24 0.27 0.21 0.23 0.26 0.28 0.30 0.28 0.03 0.07 0.00 Total 3.33 3.42 3.73 3.08 3.18 3.67 4.14 3.80 3.87 0.07 0.00 Gormany U Commany U U Signal 0.31 0.32 0.31 0.31 0.32 0.38 0.33 0.32 0.31 0.31 0.32 0.38 0.33 0.31 0.32 0.38 0.33 0.01 0.05 0.05 0.05 0.05 0.06 0.05 0.06 0.07 0.04 0.03 0.01 0.01 0.01 0.01 0.05 0.05 0.05 0.06 0.05 0.06 0.0												
Other products 0.20 0.21 0.23 0.27 0.21 0.28 0.07 0.00 Corrany 3.33 3.42 3.73 3.88 3.18 3.67 4.14 3.80 3.87 0.07 0.04 Corrany 0 0 0.11 0.11 0.11 0.11 0.11 0.11 0.01 0.00 Naphtha 0.12 0.34 0.35 0.31 0.32 0.36 0.37 0.70 0.64 0.46												
Germany U </td <td>Other products</td> <td></td> <td>0.10</td>	Other products											0.10
LPG and eithene 0.11 0.12 0.13 0.12 0.11 0.11 0.11 0.01 0.00 0.01 Motor gasoline 0.45 0.45 0.40 0.44 0.48 0.46 0.44 0.40 0.42 0.01 0.03 Motor gasoline 0.71 0.71 0.71 0.76 0.66 0.07 0.64 0.03 0.06 0.07 0.64 0.03 0.06 0.07 0.64 0.03 0.06 0.07 0.64 0.03 0.06 0.07 0.64 0.03 0.06 0.07 0.64 0.02 0.04 0.00 0.01 0.03 0.02 </td <td>Total</td> <td>3.33</td> <td>3.42</td> <td>3.73</td> <td>3.08</td> <td>3.18</td> <td>3.67</td> <td>4.14</td> <td>3.80</td> <td>3.87</td> <td>0.07</td> <td>0.04</td>	Total	3.33	3.42	3.73	3.08	3.18	3.67	4.14	3.80	3.87	0.07	0.04
LPG and eithene 0.11 0.12 0.13 0.12 0.11 0.11 0.11 0.01 0.00 0.01 Motor gasoline 0.45 0.45 0.40 0.44 0.48 0.46 0.44 0.40 0.42 0.01 0.03 Motor gasoline 0.71 0.71 0.71 0.76 0.66 0.07 0.64 0.03 0.06 0.07 0.64 0.03 0.06 0.07 0.64 0.03 0.06 0.07 0.64 0.03 0.06 0.07 0.64 0.03 0.06 0.07 0.64 0.02 0.04 0.00 0.01 0.03 0.02 </td <td>Germany</td> <td></td>	Germany											
Motor gasoline 0.45 0.45 0.40 0.46 0.46 0.46 0.44 0.40 0.42 0.01 0.01 0.05 Diesel 0.71 0.71 0.71 0.76 0.71 0.71 0.71 0.71 0.71 0.71 0.71	LPG and ethane	0.11		0.12	0.13	0.12	0.11	0.11	0.11	0.11		-0.01
Jet and kerosene 0.10 0.13 0.09 0.11 0.16 0.16 0.15 0.15 0.01 0.05 Obes 0.71 0.71 0.71 0.71 0.71 0.71 0.71 0.71 0.71 0.71 0.71 0.71 0.75 0.70 0.64 0.63 0.01 0.05 Cher products 0.08 0.07 0.08 0.06 0.05 0.06 0.07 0.08 0.06 0.07 0.06 0.07 0.06 0.07 0.06 0.07 0.06 0.07 0.06 0.07 0.08 0.06 0.07 0.06 0.06 0.07 0.06 0.06 0.07 0.08 0.06 0.06 0.01 </td <td>Naphtha</td> <td></td>	Naphtha											
Diesel 0.71 0.71 0.77 0.75 0.70 0.64 0.63 0.01 0.05 Other gesol 0.36 0.28 0.22 0.26 0.36 0.35 0.05 0.01 0.05 0.06 0.07 0.08 0.07 0.08 0.07 0.08 0.07 0.08 0.05 0.06 0.07 0.08 0.05 0.06 0.07 0.08 0.05 0.06 0.07 0.08 0.07 0.08 0.05 0.06 0.07 0.08 0.07 0.08 0.07 0.08 0.07 0.08 0.07 0.08 0.07 0.08 0.07 0.08 0.07 0.08 0.07 0.01												
Residual fuel oil 0.05 0.05 0.04 0.05 0.06 0.07 0.08 0.07 0.08 0.06 0.07 0.08 0.07 0.08 0.07 0.08 0.05 0.06 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.01 <td>Diesel</td> <td></td>	Diesel											
Other products0.080.070.050.060.070.080.060.060.060.010.00Total2.152.141.892.072.232.342.262.052.090.030.01ILPG and ethane0.090.100.110.090.010.110.140.110.130.020.01Maphtha0.100.100.110.090.110.110.140.110.130.020.04Motor gasoline0.140.170.130.170.190.180.170.140.110.130.020.02Dised0.420.440.470.050.040.050.040.000.020.040.000.02Dised0.420.490.440.490.520.520.530.440.450.040.000.02Dised0.460.660.050.060.060.060.060.060.060.060.060.020.010.000.02Dised0.420.490.410.151.251.251.261.260.130.150.120.010.00Charpodicus0.140.150.140.150.120.130.150.140.000.02Dised0.140.150.120.130.150.140.010.000.000.01Dised0.170.140.130.020.02 <t< td=""><td>Other gasoil</td><td>0.36</td><td>0.28</td><td></td><td>0.26</td><td></td><td>0.36</td><td></td><td></td><td></td><td>0.02</td><td></td></t<>	Other gasoil	0.36	0.28		0.26		0.36				0.02	
Total 2.15 2.14 1.89 2.07 2.23 2.34 2.26 2.05 2.09 0.03 0.16 IEG and ethane 0.09 0.10 0.11 0.09 0.11 0.14 0.11 0.13 0.17 0.13 0.17 0.14 0.11 0.12 0.12 0.03 0.02 Used 0.44 0.49 0.44 0.49 0.52 0.53 0.44 0.05 0.65 0.65 0.65 0.65 0.65 0.65 0.65 0.65 0.65 0.65 0.65 0.65 0.65 0.65 0.65 0.65	Residual fuel oil											
Tay Provide Pr												
LPG and ethane 0.99 0.10 0.11 0.010 0.011 0.010 0.011 0.014 0.014 0.02 0.04 0.05 0.04 0.05 0.04 0.05 0.04 0.05 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01	Total	2.15	2.14	1.89	2.07	2.23	2.34	2.26	2.05	2.09	0.03	0.16
Naphtha 0.10 0.10 0.11 0.01 0.00 0.02 0.04 0.05 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	Italy											
Motor gasoline 0.14 0.17 0.13 0.17 0.19 0.18 0.17 0.14 0.17 0.13 0.02 0.04 0.07 0.05 0.04 0.07 0.03 0.02 0.04 0.07 0.05 0.04 0.07 0.05 0.04 0.05 0.06 0.02 0.04 0.07 0.05 0.04 0.05 0.06 0.05 0.06 0.05												
Jet and kerosene 0.04 0.04 0.02 0.04 0.07 0.05 0.04 0.02 0.04 0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.05 0.05 0.06 0.06 0.05 0.05 0.05 0.06 0.06 0.05												0.03
Other gasoli 0.6 0.66 0.05 0.66 0.07 0.06 0.06 0.02 0.04 0.01 0.01 Residual fuel 0.06 0.05 0.05 0.06 0.06 0.05 0.05 0.05 0.05 0.05 0.01 0.00 Other products 0.14 0.15 0.12 0.13 0.15 0.12 0.13 0.16 0.02 0.02 0.02 Total 1.05 1.18 1.04 1.15 1.25 1.26 1.05 1.23 0.11 0.01 0.02 0.03 0.04 Naphtha 0.12 0.14 0.12 0.13 0.11 0.10 0.12 0.13 0.01 0.00 Notor gasoline 0.17 0.12 0.13 0.11 0.11 0.10 0.10 0.09 0.00 0.00 Other gasoli 0.14 0.13 0.17 0.17 0.17 0.17 0.14 0.00 0.00 Disel	Jet and kerosene											0.02
Residual fuel oil 0.06 0.06 0.05 0.01 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 <td>Diesel</td> <td></td>	Diesel											
Other products 0.14 0.15 0.16 0.16 0.16 0.15 0.13 0.15 0.02 0.02 Total 1.05 1.18 1.04 1.15 1.25 1.26 1.05 1.23 0.18 0.13 0.15 0.13 0.15 0.12 0.13 0.01 0.00 Naphtha 0.12 0.14 0.15 0.15 0.15 0.15 0.14 0.01 0.00 Naphtha 0.17 0.21 0.13 0.02 0.22 0.22 0.03 0.04 0.04 0.00 0.01 Other gracine 0.67 0.73 0.68 0.72 0.78 0.76 0.73 0.64 0.74 0.10 0.00 Other gracinal triel all 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.04 0.04 0.00 0.00 Other gracinal triel all 0.42 0.45 0.46 0.46 0.46 0.46 0.46												
Trance UPG and ethane 0.11 0.12 0.12 0.13 0.11 0.10 0.12 0.12 0.13 0.01 0.00 Maphtha 0.12 0.14 0.15 0.15 0.15 0.15 0.15 0.15 0.14 0.01 0.00 Motor gasoline 0.17 0.21 0.18 0.20 0.24 0.22 0.22 0.19 0.22 0.03 0.04 Diesel 0.67 0.73 0.68 0.72 0.78 0.76 0.73 0.64 0.74 0.10 0.09 0.00 0.01 Diesel 0.67 0.73 0.64 0.74 0.10 0.17 0.17 0.17 0.17 0.00 0.00 0.01 0.00 0.01 0.01 0.06 0.08 0.02 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01	Other products											0.02
Trance UPG and ethane 0.11 0.12 0.12 0.13 0.11 0.10 0.12 0.12 0.13 0.01 0.00 Maphtha 0.12 0.14 0.15 0.15 0.15 0.15 0.15 0.15 0.14 0.01 0.00 Motor gasoline 0.17 0.21 0.18 0.20 0.24 0.22 0.22 0.19 0.22 0.03 0.04 Diesel 0.67 0.73 0.68 0.72 0.78 0.76 0.73 0.64 0.74 0.10 0.09 0.00 0.01 Diesel 0.67 0.73 0.64 0.74 0.10 0.17 0.17 0.17 0.17 0.00 0.00 0.01 0.00 0.01 0.01 0.06 0.08 0.02 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01	Total	1.05	1.18	1.04	1.15	1.25	1.25	1.26	1.05	1.23	0.18	0.13
LPG and ethane 0.11 0.12 0.12 0.13 0.11 0.10 0.12 0.12 0.14 0.00 Naphtha 0.12 0.14 0.15 0.12 0.13 0.15 0.15 0.15 0.15 0.14 -0.01 -0.02 Motor gasoline 0.17 0.21 0.18 0.22 0.22 0.22 0.19 0.22 0.03 0.04 Jet and kerosene 0.09 0.09 0.08 0.07 0.11 0.15 0.17 0.17 0.00 0.00 Other gasoli 0.14 0.13 0.07 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.04 0.04 0.00 0.01 Other gasoli 0.09 0.09 0.07 0.09 0.12 0.09 0.08 0.08 0.08 0.02 0.01 Other products 0.09 0.07 0.09 0.10 1.61 1.59 1.46 1.61 0.15 0.17 0.17 0.17 0.17 0.17 0.10 0.01 0.01 0.01 <t< td=""><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td>-</td><td></td><td></td></t<>						-				-		
Motor gasoline 0.17 0.21 0.18 0.20 0.24 0.22 0.19 0.22 0.03 0.04 Jet and Kerosene 0.09 0.09 0.08 0.07 0.11 0.10 0.10 0.10 0.09 0.00 0.01 Other gasoli 0.14 0.13 0.17 0.09 0.11 0.15 0.17 0.17 0.17 0.00 0.00 Residual fuel oil 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.04 0.04 0.00 0.01 Other products 0.09 0.09 0.07 0.09 0.12 0.09 0.08 0.06 0.08 0.02 0.01 Other products 0.09 0.01 1.47 1.45 1.63 1.61 1.59 1.46 1.61 0.05 0.02 0.01 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	LPG and ethane	0.11	0.12	0.12	0.13	0.11	0.10	0.12	0.12	0.13	0.01	0.00
Jet and kerosene 0.09 0.08 0.07 0.11 0.11 0.10 0.10 0.09 0.00 0.01 Diesel 0.67 0.73 0.68 0.72 0.78 0.76 0.73 0.64 0.74 0.10 0.06 Cher gasoil 0.14 0.13 0.17 0.09 0.11 0.15 0.17 0.07 0.09 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.04 0.04 0.00 0.01 Cher gasoil 0.09 0.09 0.07 0.09 0.12 0.09 0.08 0.06 0.08 0.02 0.01 Cher gasoil 1.42 1.54 1.47 1.45 1.63 1.61 1.59 1.64 1.61 0.05 0.02 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.00 <t< td=""><td>Naphtha</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-0.02</td></t<>	Naphtha											-0.02
Diesel 0.67 0.73 0.68 0.72 0.78 0.76 0.73 0.64 0.74 0.10 0.06 Other gasoil 0.14 0.13 0.17 0.09 0.11 0.15 0.17 0.17 0.17 0.17 0.00 0.00 Other products 0.09 0.09 0.07 0.09 0.12 0.09 0.06 0.08 0.06 0.08 0.02 0.01 Other products 0.09 0.09 0.07 0.09 0.12 0.09 0.08 0.06 0.08 0.02 0.01 United Kingdom U U U 0.11 0.13 0.11 0.13 0.09 0.10 0.11 0.11 0.10 0.01 0.00 0.												
Other gasoil 0.14 0.13 0.17 0.09 0.11 0.15 0.17 0.17 0.17 0.07 0.00 0.00 Residual fuel oil 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.04 0.04 0.00 0.01 Other products 0.09 0.09 0.07 0.09 0.12 0.09 0.03 0.04 0.04 0.00 0.01 Total 1.42 1.54 1.45 1.63 1.61 1.59 1.46 1.61 0.15 0.10 United Kingdom LPG and ethane 0.13 0.11 0.11 0.10 0.11 0.11 0.11 0.00 0.0												
Other products 0.09 0.09 0.07 0.09 0.12 0.09 0.08 0.06 0.08 0.02 0.01 Total 1.42 1.54 1.47 1.45 1.63 1.61 1.59 1.46 1.61 0.15 0.10 United Kingdom U U U 0.02 0.00 0.01 0.01 0.11 0.10 0.11 0.11 0.00 -0.02 Maphtha 0.02 0.00 0.01 0.01 0.01 0.10 0.11 0.11 0.11 0.00 0.01 0.02 0.02 0.02 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01	Other gasoil											
Total 1.42 1.54 1.47 1.45 1.63 1.61 1.59 1.46 1.61 0.15 0.10 United Kingdom LPG and ethane 0.13 0.11 0.13 0.09 0.10 0.11 0.10 0.11 0.11 0.00 0.01 0.11 0.11 0.11 0.10 0.11 0.00 0.02 0.02 0.02 0.02 0.02 0.02 0.01 0.0	Residual fuel oil											
United Kingdom LPG and ethane 0.13 0.11 0.13 0.09 0.10 0.11 0.10 0.11 0.11 0.00 0.01 0.00 0.00 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00												
LPG and ethane 0.13 0.11 0.13 0.09 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.00 0.01 0.00 0.01 0.00 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00<	Total	1.42	1.54	1.47	1.45	1.63	1.61	1.59	1.46	1.61	0.15	0.10
Naphtha 0.02 0.00 0.01 0.01 0.00 0.00 0.01 0.00 0.00 0.01 0.00 0.00 0.01 0.00 0.00 0.01 0.00 0.00 0.01 0.00 0.00 0.01 0.00 0.00 0.01 0.00 0.00 -0.01 Motor gasoline 0.22 0.22 0.22 0.25 0.03 0.06 Diesel 0.43 0.48 0.42 0.50 0.50 0.50 0.50 0.44 0.54 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.00	United Kingdom	· · ·	o · · ·			a	<u> </u>			<i></i>		
Motor gasoline 0.22 0.25 0.20 0.26 0.28 0.20 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.02 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00												
Jet and kerosene 0.19 0.18 0.17 0.14 0.16 0.24 0.29 0.22 0.25 0.03 0.06 Diesel 0.43 0.48 0.42 0.50 0.50 0.50 0.44 0.54 0.10 0.11 Other gasoii 0.11 0.13 0.11 0.14 0.12 0.11 0.10 0.12 0.02 0.00 Residual fuel oil 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.01 0.00 0.00 Other products 0.10 0.11 0.19 0.11 0.10 0.10 0.11 0.01 0.02 Total 1.21 1.27 1.16 1.25 1.31 1.37 1.40 1.26 1.42 0.16 0.27 Canada LPG and ethane 0.47 0.50 0.51 0.49 0.53 0.54 0.42 -0.12 -0.12 Naphtha 0.03 0.03 0.03 0												
Other gasoil 0.11 0.13 0.11 0.14 0.12 0.11 0.10 0.12 0.02 0.00 Residual fuel oil 0.02 0.02 0.02 0.01 0.02 0.02 0.01 0.02 0.02 0.01 0.00 0.0	Jet and kerosene											0.06
Residual fuel oil 0.02 0.02 0.02 0.01 0.02 0.02 0.02 0.02 0.01 0.00 0.00 Other products 0.10 0.11 0.11 0.11 0.10 0.11 0.10 0.10 0.11 0.01 0.02 0.02 0.02 0.01 0.01 0.00 0.00 Total 1.21 1.27 1.16 1.25 1.31 1.37 1.40 1.26 1.42 0.16 0.27 Canada U U 0.50 0.51 0.49 0.50 0.49 0.53 0.54 0.42 -0.12 -0.12 -0.12 Maphtha 0.03 0.03 0.03 0.03 0.03 0.04 0.04 0.03 -0.01 0.00 Motor gasoline 0.77 0.80 0.75 0.78 0.87 0.80 0.81 0.75 0.81 0.06 0.06 Diesel 0.07 0.88 0.06 0.05 0.10	Diesel											0.11
Other products 0.10 0.11 0.09 0.11 0.11 0.10 0.10 0.11 0.01 0.02 Total 1.21 1.27 1.16 1.25 1.31 1.37 1.40 1.26 1.42 0.16 0.27 Canada Description 0.77 0.80 0.51 0.49 0.50 0.49 0.53 0.54 0.42 -0.12 -0.12 -0.12 Naphtha 0.03 0.03 0.03 0.03 0.03 0.03 0.04 0.04 0.03 -0.01 0.00 Motor gasoline 0.77 0.80 0.75 0.78 0.87 0.80 0.81 0.75 0.81 0.06 0.02 0.06 Jet and kerosene 0.07 0.08 0.06 0.05 0.10 0.11 0.12 0.08 0.10 0.02 0.06 Diesel 0.27 0.27 0.27 0.27 0.26 0.26 0.26 0.29 0.03 0.00												
Total 1.21 1.27 1.16 1.25 1.31 1.37 1.40 1.26 1.42 0.16 0.27 Canada LPG and ethane 0.47 0.50 0.51 0.49 0.50 0.49 0.53 0.54 0.42 -0.12												0.02
Canada LPG and ethane 0.47 0.50 0.51 0.49 0.50 0.49 0.53 0.54 0.42 -0.12 -0.12 -0.12 Naphtha 0.03 0.03 0.03 0.03 0.03 0.04 0.04 0.03 -0.01 0.00 Motor gasoline 0.77 0.80 0.75 0.78 0.87 0.80 0.81 0.75 0.81 0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.01 0.01 0.02 0.06 0.06 0.05 0.10 0.11 0.12 0.08 0.10 0.02 0.06 0.05 0.10 0.11 0.12 0.08 0.00 0.06 0.05 0.10 0.11 0.12 0.08 0.10 0.02 0.06 Diesel 0.27 0.27 0.27 0.27 0.26 0.26 0.26 0.29 0.03 0.00 0.06 0.09 Residual fuel o	Total											0.27
LPG and ethane 0.47 0.50 0.51 0.49 0.50 0.49 0.53 0.54 0.42 -0.12 <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>0.10</td><td>,</td></th<>											0.10	,
Naphtha 0.03 0.03 0.03 0.03 0.03 0.03 0.04 0.04 0.03 -0.01 0.00 Motor gasoline 0.77 0.80 0.75 0.78 0.87 0.80 0.81 0.75 0.81 0.06 0.06 0.06 Jet and kerosene 0.07 0.08 0.06 0.05 0.10 0.11 0.12 0.08 0.10 0.02 0.06 Diesel 0.27 0.27 0.27 0.27 0.26 0.26 0.26 0.29 0.03 0.00 Other gasoil 0.34 0.35 0.33 0.37 0.35 0.32 0.34 0.40 0.66 0.09 Residual fuel oil 0.03 0.03 0.03 0.02 0.03 0.04 0.05 0.03 0.03 0.00 Other products 0.32 0.31 0.28 0.27 0.35 0.34 0.29 0.31 0.29 -0.02 0.03	LPG and ethane	0.47	0.50	0.51	0.49	0.50	0.49	0.53	0.54	0.42	-0.12	-0.12
Jet and kerosene 0.07 0.08 0.06 0.05 0.10 0.11 0.12 0.08 0.10 0.02 0.06 Diesel 0.27 0.27 0.27 0.27 0.26 0.26 0.26 0.29 0.03 0.00 Other gasoil 0.34 0.35 0.33 0.33 0.37 0.35 0.32 0.34 0.40 0.06 0.09 Residual fuel oil 0.03 0.03 0.02 0.03 0.04 0.05 0.03 0.00 Other products 0.32 0.31 0.28 0.27 0.35 0.34 0.29 0.31 0.29 -0.02 0.03	Naphtha											0.00
Diesel 0.27 0.27 0.27 0.27 0.27 0.26 0.26 0.26 0.29 0.03 0.00 Other gasoil 0.34 0.35 0.33 0.33 0.37 0.35 0.32 0.34 0.40 0.06 0.09 Residual fuel oil 0.03 0.03 0.03 0.02 0.03 0.04 0.05 0.03 -0.03 0.00 Other products 0.32 0.31 0.28 0.27 0.35 0.34 0.29 0.31 0.29 -0.02 0.03	Motor gasoline											0.06
Other gasoil 0.34 0.35 0.33 0.37 0.35 0.32 0.40 0.06 0.09 Residual fuel oil 0.03 0.03 0.03 0.02 0.03 0.04 0.05 0.03 -0.03 0.00 Other products 0.32 0.31 0.28 0.27 0.35 0.34 0.29 0.31 0.29 -0.02 0.03												
Residual fuel oil 0.03 0.03 0.03 0.03 0.02 0.03 0.04 0.05 0.03 -0.03 0.00 Other products 0.32 0.31 0.28 0.27 0.35 0.34 0.29 0.31 0.29 -0.02 0.03												0.00
•	Residual fuel oil	0.03	0.03	0.03	0.03	0.02	0.03	0.04	0.05	0.03	-0.03	0.00
Total 2.30 2.35 2.26 2.24 2.50 2.40 2.41 2.36 2.35 -0.01 0.12	Other products									0.29		0.03
	Total	2.30	2.35	2.26	2.24	2.50	2.40	2.41	2.36	2.35	-0.01	0.12

Demand, measured as deliveries from refineries and primary stocks, comprises inland deliveries, international bunkers and refinery fuel. It includes crude for direct burning, oil from non-conventional sources and other sources of supply. Jet/kerosene comprises jet kerosene and non-aviation kerosene. Gasoil comprises diesel, light heating oil and other gasoils.
 Latest official OECD submissions (MOS).
 US figures exclude US territories.

OPEC Crude Oil Saudi Arabia	2020		WORL	Table 3 D OIL PRC (million barrels pe	DUCT	ION												
Crude Oil Saudi Arabia	2020			(million barrels pe		WORLD OIL PRODUCTION												
Crude Oil Saudi Arabia	2020				ar day)													
Crude Oil Saudi Arabia		2021	2022	4Q21	1Q22	2Q22	3Q22	4Q22	Feb 22	Mar 22	Apr 22							
Saudi Arabia																		
	9.21	9.15		9.91	10.20				10.23	10.28	10.40							
Iran	2.00	2.42		2.48	2.56				2.58	2.58	2.55							
Iraq	4.05	4.03		4.24	4.29				4.23	4.33	4.42							
UAE	2.87	2.76		2.90	3.01				2.95	3.03	3.03							
Kuwait	2.41	2.42		2.53	2.61				2.61	2.64	2.65							
Angola Nigeria	1.27 1.49	1.12 1.31		1.12 1.24	1.16 1.30				1.16 1.27	1.14 1.25	1.18 1.23							
Libya	0.35	1.15		1.24	1.08				1.27	1.25	0.90							
Algeria	0.90	0.91		0.96	0.99				0.98	1.00	1.00							
Congo	0.30	0.27		0.26	0.27				0.26	0.26	0.27							
Gabon	0.20	0.18		0.19	0.19				0.19	0.20	0.19							
Equatorial Guinea	0.11	0.10		0.08	0.09				0.09	0.09	0.10							
Venezuela	0.53	0.61		0.76	0.71				0.72	0.72	0.75							
Total Crude Oil	25.69	26.43		27.80	28.46				28.43	28.62	28.67							
of which Neutral Zone ¹ Total NGLs ²	0.11 5.09	0.25 5.12	5.37	0.28 5.16	0.27 5.28	5.37	5.41	5.41	0.22 5.26	0.28 5.31	0.29 5.36							
			5.57			5.57	5.41	3.41										
Total OPEC ³	30.78	31.55		32.96	33.74				33.69	33.93	34.03							
NON-OPEC ⁴ OECD																		
Americas	23.84	24.32	25.74	25.30	24.73	25.37	26.19	26.65	24.66	24.95	25.01							
United States	16.56	16.73	17.88	17.54	17.05	17.65	18.22	18.59	16.96	17.21	17.32							
Mexico	1.93	1.95	2.03	1.97	2.00	2.02	2.04	2.08	1.99	2.01	2.00							
Canada	5.35	5.63	5.82	5.77	5.67	5.70	5.92	5.97	5.70	5.73	5.68							
Chile	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01							
Europe	3.56	3.38	3.31	3.38	3.34	3.23	3.25	3.40	3.37	3.32	3.33							
UK Norway	1.08 2.01	0.89 2.04	0.91 1.96	0.88 2.04	0.92 1.97	0.89 1.89	0.91 1.90	0.90 2.07	0.94 1.98	0.91 1.96	0.91 1.98							
Others	0.47	0.46	0.44	0.46	0.46	0.44	0.43	0.43	0.45	0.45	0.44							
Asia Oceania	0.52	0.50	0.49	0.51	0.49	0.49	0.49	0.49	0.49	0.49	0.49							
Australia	0.45	0.43	0.42	0.45	0.42	0.42	0.42	0.42	0.41	0.42	0.42							
Others	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07							
Total OECD	27.92	28.20	29.54	29.19	28.57	29.10	29.93	30.54	28.52	28.77	28.83							
NON-OECD																		
Former USSR	13.50	13.77	12.53	14.31	14.41	12.52	11.52	11.73	14.45	14.34	13.13							
Russia	10.61	10.87	9.62 0.70	11.24 0.71	11.37	9.80	8.65	8.71	11.40	11.35	10.40							
Azerbaijan Kazakhstan	0.70 1.84	0.70 1.85	1.89	1.99	0.70 1.98	0.69 1.72	0.69 1.86	0.70 2.00	0.69 2.00	0.70 1.95	0.70 1.72							
Others	0.36	0.36	0.33	0.36	0.36	0.32	0.32	0.32	0.37	0.34	0.31							
Asia	6.99	6.91	6.98	6.81	7.02	7.02	6.98	6.91	7.05	7.05	7.01							
China	3.97	4.06	4.23	4.01	4.23	4.26	4.23	4.19	4.22	4.25	4.24							
Malaysia	0.60	0.57	0.57	0.55	0.58	0.55	0.58	0.58	0.60	0.59	0.57							
India	0.75	0.73	0.70	0.72	0.72	0.71	0.70	0.69	0.72	0.72	0.71							
Indonesia	0.73	0.68	0.65	0.67	0.66	0.66	0.65	0.64	0.66	0.66	0.66							
Others Europe	0.93	0.88	0.83	0.85	0.83	0.84	0.83	0.82	0.85	0.83	0.84							
Americas	0.12 5.32	0.11 5.30	0.11 5.61	0.11 5.18	0.11 5.43	0.11 5.46	0.11 5.73	0.10 5.84	0.11 5.39	0.11 5.43	0.11 5.51							
Brazil	3.04	3.00	3.15	2.93	3.08	3.03	3.21	3.26	3.02	3.43	3.10							
Argentina	0.61	0.64	0.70	0.67	0.69	0.70	0.71	0.71	0.69	0.69	0.70							
Colombia	0.79	0.74	0.74	0.75	0.75	0.74	0.74	0.75	0.75	0.75	0.74							
Ecuador	0.48	0.48	0.47	0.40	0.47	0.48	0.47	0.46	0.49	0.48	0.48							
Others	0.40	0.43	0.55	0.42	0.44	0.51	0.60	0.66	0.45	0.44	0.49							
Middle East Oman	3.01 0.96	3.09 0.98	3.21 1.07	3.13 1.01	3.16 1.04	3.23 1.07	3.23 1.08	3.23 1.08	3.13 1.05	3.19 1.05	3.21 1.06							
Qatar	0.96	0.98 1.82	1.07	1.01	1.04	1.07	1.08	1.08	1.05	1.05	1.06							
Others	0.28	0.29	0.30	0.29	0.30	0.31	0.30	0.30	0.30	0.31	0.31							
Africa	1.39	1.31	1.28	1.30	1.27	1.27	1.29	1.29	1.24	1.28	1.24							
Egypt	0.60	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57							
Others	0.79	0.74	0.72	0.73	0.71	0.70	0.73	0.72	0.67	0.71	0.67							
Total Non-OECD	30.33	30.50	29.73	30.84	31.40	29.59	28.86	29.10	31.38	31.39	30.20							
Processing gains ⁵	2.11 2.63	2.25 2.75	2.29 2.92	2.32 2.69	2.29 2.43	2.29 3.03	2.29 3.29	2.29 2.93	2.29 2.47	2.29 2.48	2.29 2.78							
Global biofuels TOTAL NON-OPEC	63.00	63.71	64.48	65.03	64.69	64.01	64.37	64.86	64.65	64.92	64.11							

Neutral Zone production is already included in Saudi Arabia and Kuwait production with their respective shares.
 Includes condensates reported by OPEC countries, oil from non-conventional sources, e.g. GTL in Nigeria and non-oil inputs to Saudi Arabian MTBE.
 OPEC data based on today's membership throughout the time series.
 Comprises crude oil, condensates, NGLs and oil from non-conventional sources
 Net volumetric gains and losses in refining and marine transportation losses.

				Table-2	a						
			CLIDB	Table 3			e ¹				
		OIL	SUPP	LY IN OEC (thousand of barrels		NTRIE	3				
	2020	2021	2022	4Q21	1Q22	2Q22	3Q22	4Q22	Feb 22	Mar 22	Apr 22
United States											-
Alaska	448	437	448	445	446	454	434	459	450	439	464
California	404	369	342	356	347	343	340	337	347	346	344
Texas Federal Gulf of Mexico ²	4854	4771	5205	4984	4887	5160	5369	5399	4831	4968	5063
Other US Lower 48	1644 3934	1701 3909	1796 4272	1729 4118	1688 4049	1799 4125	1869 4420	1827 4488	1615 4069	1734 4080	1790 3923
NGLs ³	5175	5397	5639	5738	5463	5591	5611	5888	5475	5468	5563
Other Hydrocarbons	98	142	179	173	170	173	180	193	170	170	170
Total	16556	16727	17883	17542	17050	17647	18222	18591	16956	17205	17317
Canada											
Alberta Light/Medium/Heavy	423	436	468	459	468	470	468	465	467	487	466
Alberta Bitumen	1718	1921	2143	1963	2018	2133	2283	2136	1955	1955	2168
Saskatchewan Other Crude	435 490	445 456	442 385	451 428	448 291	444 413	440 412	436 421	449 354	447 372	445 413
NGLs	490 949	1007	1032	420 988	1046	1027	1044	1011	1041	1052	1034
Other Upgraders	219	180	181	199	188	163	171	201	193	191	155
Synthetic Crudes	1116	1181	1166	1280	1214	1052	1102	1296	1246	1229	1000
Total	5349	5625	5817	5768	5674	5702	5920	5966	5705	5732	5682
Mexico											
Crude	1716	1780	1864	1803	1825	1844	1870	1916	1812	1834	1831
NGLs	206	170	165	167	170	166	163	160	170	166	168
Total	1926	1954	2034	1975	2001	2015	2039	2082	1986	2006	2004
UK Devet Fields	05	05	00		07	00	40		07	07	07
Brent Fields Forties Fields	35 297	25 212	23 217	23 245	27 242	26 208	19 199	21 221	27 241	27 238	27 237
Ninian Fields	31	212	18	243	242	19	18	17	19	230 19	19
Flotta Fields	51	50	40	44	42	38	41	40	41	41	42
Other Fields	575	511	533	472	513	530	562	529	534	511	507
NGLs	88	67	74	72	74	74	74	73	75	76	74
Total	1077	888	907	877	918	895	912	902	937	912	905
Norway ⁵											
Ekofisk-Ula Area	132	141	111 224	141 224	132	71	115	127	131	133 205	131
Oseberg-Troll Area Statfjord-Gullfaks Area	234 230	212 262	224	224	223 246	231 241	198 236	245 231	227 240	205	233 242
Haltenbanken Area	280	284	281	296	287	285	276	279	279	290	285
Sleipner-Frigg Area	743	822	841	862	871	792	809	892	868	870	799
Other Fields	101	67	59	23	-1	68	69	99	28	8	81
NGLs	288	249	204	231	211	207	200	200	207	208	209
Total	2007	2037	1960	2044	1969	1894	1902	2073	1980	1961	1980
Other OECD Europe	74	00	05	07	07	00		00		07	00
Denmark Italy	71 101	66 100	65 126	67 114	67 126	66 126	64 125	63 124	68 133	67 127	66 125
Turkey	62	66	64	67	64	64	64	63	63	64	63
Other	91	99	87	97	89	89	87	85	79	91	89
NGLs	7	7	7	6	8	7	7	7	7	7	8
Non-Conventional Oils	144	120	92	105	104	90	88	88	101	89	93
Total	474	457	441	456	457	441	435	430	451	446	445
Australia	-							-	-		
Gippsland Basin Cooper-Eromanga Basin	8 35	4 23	4 19	4 21	4 20	4 20	4 19	3 19	4 20	4 20	4 20
Carnarvon Basin	106	112	112	118	116	113	19	108	116	115	114
Other Crude	202	195	179	202	175	179	181	184	169	182	178
NGLs	102	99	103	101	104	103	102	102	107	102	104
Total	453	434	417	446	418	418	417	416	415	422	419
Other OECD Asia Oceania											
New Zealand	21	18	17	18	16	17	17	16	16	17	17
Japan	4	4	4	4	4	4	4	4	4	4	4
NGLs Non-Conventional Oils	11 34	11 37	10 41	11 35	11 41	10 41	10 40	10 40	12 42	10 39	10 41
Total	71	71	71	68	72	71	71	70	74	70	72
OECD					12					10	12
Crude Oil	19475	19525	20631	20066	19750	20376	21121	21257	19656	19943	20193
NGLs	6834	7013	7244	7324	7096	7195	7220	7460	7102	7099	7178
Non-Conventional Oils ⁴	1615	1664	1664	1796	1722	1523	1587	1823	1757	1724	1464
Total	27923	28202	29539	29186	28568	29095	29928	30540	28516	28766	28835
Iotai	21923	20202	29339	29100	20300	29090	23320	30340	20010	20100	20000

Subcategories refer to crude oil only unless otherwise noted.
 Only production from Federal waters is included.
 To the extent possible, condensates from natural gas processing plants are included with NGLs, while field condensates are counted as crude oil.
 Does not include biofuels.
 Sorth Sea production is grouped by area including all fields being processed through the named field complex, ie, not just the field of that name.
 Other North Sea NGLs are included.

Table 3b WORLD OIL PRODUCTION (Including OPEC+ based on current agreement ')													
			,	(million barrels				Ū	,				
	2020	2021	2022	1Q21	2Q21	3Q21	4Q21	1Q22	Jan 22	Mar 22	Apr 22		
OPEC+													
Crude Oil										4.00	4.00		
Algeria	0.90	0.91 1.12	0.99	0.87	0.89 1.12	0.92	0.96	0.99	0.98	1.00	1.00		
Angola Azerbaijan	1.27 0.61	0.59	1.13 0.57	1.14 0.59	0.60	1.11 0.60	1.12 0.59	1.16 0.58	1.19 0.58	1.14 0.58	1.18 0.58		
Bahrain	0.01	0.33	0.19	0.17	0.00	0.18	0.33	0.18	0.30	0.20	0.30		
Brunei	0.08	0.08	0.09	0.09	0.09	0.08	0.08	0.08	0.08	0.08	0.09		
Congo	0.30	0.27	0.28	0.28	0.27	0.27	0.26	0.27	0.28	0.26	0.27		
Equatorial Guinea	0.11	0.10	0.10	0.11	0.11	0.10	0.08	0.09	0.09	0.09	0.10		
Gabon	0.20	0.18	0.18	0.17	0.18	0.18	0.19	0.19	0.18	0.20	0.19		
Iran	2.00	2.42	2.55	2.32	2.40	2.47	2.48	2.56	2.52	2.58	2.55		
Iraq	4.05	4.03	4.50	3.88	3.94	4.06	4.24	4.29	4.30	4.33	4.42		
Kazakhstan	1.50 2.41	1.52 2.42	1.56 2.72	1.49 2.34	1.52 2.35	1.41 2.44	1.66 2.53	1.63 2.61	1.63 2.57	1.60 2.64	1.41 2.65		
Kuwait Libya	0.35	2.42 1.15	1.11	2.34	2.35	2.44 1.16	2.53	1.08	2.57	2.64	2.65		
Malaysia	0.35	0.42	0.42	0.45	0.43	0.39	0.40	0.42	0.40	0.43	0.30		
Mexico	1.66	1.66	1.66	1.67	1.69	1.65	1.65	1.64	1.65	1.63	1.64		
Nigeria	1.49	1.31	1.34	1.39	1.34	1.27	1.24	1.30	1.38	1.25	1.23		
Oman	0.76	0.75	0.84	0.73	0.74	0.76	0.78	0.82	0.81	0.83	0.84		
Russia	9.42	9.62	8.23	9.26	9.54	9.72	9.95	10.04	10.07	10.00	9.10		
Saudi Arabia	9.21	9.15	10.66	8.51	8.56	9.60	9.91	10.20	10.10	10.28	10.40		
South Sudan	0.16	0.15	0.15	0.14	0.16	0.16	0.15	0.14	0.15	0.13	0.14		
Sudan	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06		
UAE	2.87	2.76	3.10	2.65	2.68	2.80	2.90	3.01	3.05	3.03	3.03		
Venezuela	0.53	0.61	0.74	0.55	0.55	0.59	0.76	0.71	0.69	0.72	0.75		
Total Crude Oil of which Neutral Zone	40.57 0.11	41.47 0.22	43.14	40.02 0.23	40.54 0.26	41.98 0.24	43.31 0.28	44.04	43.93 0.30	44.15 0.28	43.12 0.29		
Total NGLs	7.36	7.50	8.00	7.48	7.48	7.39	7.64	7.86	7.80	7.92	7.85		
TOTAL OPEC+	47.9	49.0	51.1	47.5	48.0	49.4	51.0	51.9	51.7	52.1	51.0		
NON-OPEC+													
OECD													
Americas ²	21.91	22.36	23.71	21.37	22.30	22.43	23.32	22.73	22.58	22.95	23.01		
United States	16.56	16.73	17.88	15.68	16.88	16.79	17.54	17.05	16.98	17.21	17.32		
Canada	5.35	5.63	5.82	5.69	5.42	5.63	5.77	5.67	5.59	5.73	5.68		
Chile	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01		
Europe UK	3.56	3.38	3.31	3.63	3.13	3.39	3.38	3.34	3.34	3.32	3.33		
Norway	1.08 2.01	0.89 2.04	0.91 1.96	1.03 2.14	0.77 1.92	0.88 2.05	0.88 2.04	0.92 1.97	0.91 1.97	0.91 1.96	0.91 1.98		
Others	0.47	0.46	0.44	0.47	0.45	0.46	0.46	0.46	0.47	0.45	0.44		
Asia Oceania	0.52	0.50	0.49	0.51	0.46	0.54	0.51	0.49	0.49	0.49	0.49		
Australia	0.45	0.43	0.42	0.44	0.39	0.46	0.45	0.42	0.42	0.42	0.42		
Others	0.07	0.07	0.07	0.07	0.07	0.08	0.07	0.07	0.07	0.07	0.07		
Total OECD (non-OPEC+)	26.00	26.25	27.50	25.51	25.89	26.36	27.21	26.57	26.41	26.76	26.83		
Non-OECD													
FSU	0.36	0.36	0.33	0.35	0.35	0.36	0.36	0.36	0.36	0.34	0.31		
Asia	6.27	6.24	6.31	6.29	6.28	6.25	6.15	6.35	6.33	6.36	6.34		
China India	3.97 0.75	4.06 0.73	4.23 0.70	4.06 0.74	4.09 0.72	4.08 0.73	4.01 0.72	4.23 0.72	4.22 0.71	4.25 0.72	4.24 0.71		
Indonesia	0.75	0.73	0.70	0.74	0.72	0.73	0.72	0.72	0.71	0.72	0.71		
Others	0.73	0.68	0.65	0.70	0.68	0.88	0.87	0.66	0.87	0.66	0.00		
Europe	0.02	0.11	0.11	0.11	0.11	0.10	0.11	0.14	0.73	0.11	0.11		
Americas	5.32	5.30	5.61	5.27	5.31	5.42	5.18	5.43	5.46	5.43	5.51		
Brazil	3.04	3.00	3.15	2.95	3.04	3.10	2.93	3.08	3.14	3.07	3.10		
Argentina	0.61	0.64	0.70	0.62	0.63	0.64	0.67	0.69	0.69	0.69	0.70		
Colombia		0.74	0.74	0.75	0.72	0.75	0.75	0.75	0.75	0.75	0.74		
Ecuador	0.79	0									0.48		
	0.79	0.48	0.47	0.51	0.50	0.49	0.40	0.47	0.46	0.48			
Others				0.51 0.4	0.50 0.4	0.49 0.4	0.40 0.4	0.47 0.4	0.46	0.48			
	0.48	0.48	0.47								0.5		
Middle East Qatar	0.48 0.4 1.87 1.77	0.48 0.4 1.93 1.82	0.47 0.6 1.95 1.84	0.4 1.92 1.82	0.4 1.92 1.82	0.4 1.93 1.82	0.4 1.93 1.83	0.4 1.93 1.82	0.4 1.96 1.85	0.4 1.93 1.82	0.5 1.95 1.85		
Middle East Qatar Others	0.48 0.4 1.87 1.77 0.10	0.48 0.4 1.93 1.82 0.10	0.47 0.6 1.95 1.84 0.10	0.4 1.92 1.82 0.10	0.4 1.92 1.82 0.10	0.4 1.93 1.82 0.10	0.4 1.93 1.83 0.11	0.4 1.93 1.82 0.11	0.4 1.96 1.85 0.11	0.4 1.93 1.82 0.11	0.5 1.95 1.85 0.11		
Middle East Qatar Others Africa	0.48 0.4 1.87 1.77 0.10 1.2	0.48 0.4 1.93 1.82 0.10 1.1	0.47 0.6 1.95 1.84 0.10 1.1	0.4 1.92 1.82 0.10 1.11	0.4 1.92 1.82 0.10 1.11	0.4 1.93 1.82 0.10 1.08	0.4 1.93 1.83 0.11 1.09	0.4 1.93 1.82 0.11 1.08	0.4 1.96 1.85 0.11 1.08	0.4 1.93 1.82 0.11 1.09	0.5 1.95 1.85 0.11 1.04		
Middle East Qatar Others Africa Egypt	0.48 0.4 1.87 1.77 0.10 1.2 0.60	0.48 0.4 1.93 1.82 0.10 1.1 0.57	0.47 0.6 1.95 1.84 0.10 1.1 0.57	0.4 1.92 1.82 0.10 1.11 0.57	0.4 1.92 1.82 0.10 1.11 0.58	0.4 1.93 1.82 0.10 1.08 0.56	0.4 1.93 1.83 0.11 1.09 0.57	0.4 1.93 1.82 0.11 1.08 0.57	0.4 1.96 1.85 0.11 1.08 0.57	0.4 1.93 1.82 0.11 1.09 0.57	0.5 1.95 1.85 0.11 1.04 0.57		
Middle East Qatar Others Africa Egypt Others	0.48 0.4 1.87 1.77 0.10 1.2 0.60 0.57	0.48 0.4 1.93 1.82 0.10 1.1 0.57 0.53	0.47 0.6 1.95 1.84 0.10 1.1 0.57 0.51	0.4 1.92 1.82 0.10 1.11 0.57 0.54	0.4 1.92 1.82 0.10 1.11 0.58 0.53	0.4 1.93 1.82 0.10 1.08 0.56 0.52	0.4 1.93 1.83 0.11 1.09 0.57 0.52	0.4 1.93 1.82 0.11 1.08 0.57 0.51	0.4 1.96 1.85 0.11 1.08 0.57 0.52	0.4 1.93 1.82 0.11 1.09 0.57 0.53	0.5 1.95 1.85 0.11 1.04 0.57 0.48		
Middle East Qatar Others Africa Egypt Others Total non-OECD (non-OPEC+)	0.48 0.4 1.87 1.77 0.10 1.2 0.60 0.57 15.11	0.48 0.4 1.93 1.82 0.10 1.1 0.57 0.53 15.03	0.47 0.6 1.95 1.84 0.10 1.1 0.57 0.51 15.38	0.4 1.92 1.82 0.10 1.11 0.57 0.54 15.06	0.4 1.92 1.82 0.10 1.11 0.58 0.53 15.09	0.4 1.93 1.82 0.10 1.08 0.56 0.52 15.15	0.4 1.93 1.83 0.11 1.09 0.57 0.52 14.82	0.4 1.93 1.82 0.11 1.08 0.57 0.51 15.24	0.4 1.96 1.85 0.11 1.08 0.57 0.52 15.30	0.4 1.93 1.82 0.11 1.09 0.57 0.53 15.26	0.5 1.95 1.85 0.11 1.04 0.57 0.48 15.27		
Others Middle East Qatar Others Africa Egypt Others Total non-OECD (non-OPEC+) Processing gains Global biofuels	0.48 0.4 1.87 1.77 0.10 1.2 0.60 0.57 15.11 2.11	0.48 0.4 1.93 1.82 0.10 1.1 0.57 0.53 15.03 2.25	0.47 0.6 1.95 1.84 0.10 1.1 0.57 0.51 15.38 2.29	0.4 1.92 1.82 0.10 1.11 0.57 0.54 15.06 2.13	0.4 1.92 1.82 0.10 1.11 0.58 0.53 15.09 2.22	0.4 1.93 1.82 0.10 1.08 0.56 0.52 15.15 2.34	0.4 1.93 1.83 0.11 1.09 0.57 0.52 14.82 2.32	0.4 1.93 1.82 0.11 1.08 0.57 0.51 15.24 2.29	0.4 1.96 1.85 0.11 1.08 0.57 0.52 15.30 2.29	0.4 1.93 1.82 0.11 1.09 0.57 0.53 15.26 2.29	0.5 1.95 1.85 0.11 1.04 0.57 0.48 15.27 2.29		
Middle East Qatar Others Africa Egypt Others Total non-OECD (non-OPEC+)	0.48 0.4 1.87 1.77 0.10 1.2 0.60 0.57 15.11	0.48 0.4 1.93 1.82 0.10 1.1 0.57 0.53 15.03	0.47 0.6 1.95 1.84 0.10 1.1 0.57 0.51 15.38	0.4 1.92 1.82 0.10 1.11 0.57 0.54 15.06	0.4 1.92 1.82 0.10 1.11 0.58 0.53 15.09	0.4 1.93 1.82 0.10 1.08 0.56 0.52 15.15	0.4 1.93 1.83 0.11 1.09 0.57 0.52 14.82	0.4 1.93 1.82 0.11 1.08 0.57 0.51 15.24	0.4 1.96 1.85 0.11 1.08 0.57 0.52 15.30	0.4 1.93 1.82 0.11 1.09 0.57 0.53 15.26	0.5 1.95 1.85 0.11 1.04 0.57 0.48 15.27 2.29 2.78 47.17		

1 From May 2022, OPEC+ supply reflects latest OPEC+ deal and individual country's sustainable capacity. Libya, Iran, Venezuela held at most recent level through 2022.
 2 Excludes Mexico

12 May 2022

				TOCKO		ole 4	TOCK		e			
			JECD S	TOCKS	AND QUA	RIERLYS	STOCK	CHANGE	5			
			MONTHL	Y STOCKS ²	1		YEARS' S Million Barr			STOCK C		
	Nov2021	 Dec2021	Jan2022	Feb2022	Mar2022 ³	Mar2019	Mar2020	Mar2021	2Q2021	3Q2021	4Q2021	1Q2022
DECD INDUSTRY	-CONTROL	LED STOC	KS ¹									
DECD Americas												
Crude	605.1	588.5	570.5	561.0	561.0	605.1	635.6	664.6	-0.58	-0.33	0.07	-0.31
Motor Gasoline	247.6	259.8	280.8	279.9	271.5	267.3	292.0	266.7	-0.02	-0.13	0.07	0.13
Viddle Distillate	196.2	195.4	193.7	190.9	185.7	207.5	198.5	215.4	-0.01	-0.12	-0.09	-0.11
Residual Fuel Oil	35.0	31.9	33.7	34.7	36.5	33.9	40.8	39.5	-0.01	-0.04	-0.03	0.05
Fotal Products ⁴	739.9	725.9	725.7	705.3	695.0	737.5	772.5	742.0	0.26	-0.03	-0.40	-0.34
ſotal⁴	1505.1	1465.8	1452.2	1424.1	1417.4	1503.4	1583.1	1569.9	-0.29	-0.39	-0.45	-0.54
DECD Europe												
	313.3	300.5	295.0	311.0	327.4	363.5	363.9	352.9	-0.12	-0.38	-0.06	0.30
Votor Gasoline	87.9	300.5 86.8	295.0 94.9	92.6	89.7	98.7	99.5	90.3	-0.12	-0.38	-0.08	0.03
Viddle Distillate	255.9	244.5	94.9 256.2	92.0 244.7	241.2	268.0	99.5 292.4	90.3 312.2	-0.04	-0.07	-0.31	-0.04
Residual Fuel Oil	255.9 60.8	244.5 59.6	256.2 61.1	62.0	60.8	200.0 59.4	292.4 71.0	66.6	-0.08	-0.37	-0.31	-0.04
Total Products ⁴	502.2	487.9	510.4	496.8	485.8	59.4 540.9	586.3	572.6	-0.03	-0.01	-0.04	-0.02
Total ⁵	888.7	467.9 857.2	877.3	881.7	405.0 890.7	988.9	1032.9	1002.3	-0.19	-0.44	-0.29	0.02
	000.7	057.2	011.5	001.7	030.7	300.5	1052.5	1002.5	-0.51	-0.03	-0.30	0.5
DECD Asia Ocear												
Crude	108.8	99.4	97.6	97.9	104.3	158.8	132.0	123.8	0.01	-0.17	-0.11	0.06
Notor Gasoline	24.5	24.0	27.0	27.6	26.9	26.7	26.3	29.1	0.00	-0.03	-0.03	0.03
Viddle Distillate	70.2	64.2	61.8	60.8	59.3	67.4	68.0	63.2	0.02	0.07	-0.09	-0.0
Residual Fuel Oil	16.0	16.9	16.9	18.0	15.6	19.3	18.7	17.1	0.00	0.02	-0.02	-0.0
Fotal Products4	175.0	162.8	168.8	165.4	161.2	166.2	172.5	166.2	0.05	0.15	-0.23	-0.02
Γotal⁵	344.9	323.7	323.7	317.2	317.7	381.3	365.9	346.3	0.12	-0.02	-0.34	-0.07
Total OECD												
Crude	1027.2	988.4	963.1	969.9	992.7	1127.4	1131.5	1141.3	-0.69	-0.88	-0.10	0.05
Notor Gasoline	360.0	370.6	402.7	400.1	388.0	392.7	417.8	386.1	-0.06	-0.22	0.11	0.19
Viddle Distillate	522.3	504.2	511.8	496.4	486.2	542.9	558.9	590.7	-0.04	-0.42	-0.48	-0.20
Residual Fuel Oil	111.8	108.4	111.7	114.7	112.9	112.6	130.5	123.2	-0.04	-0.03	-0.09	0.05
Total Products ⁴	1417.1	1376.6	1404.9	1367.5	1342.0	1444.5	1531.2	1480.8	0.11	-0.32	-0.92	-0.38
Γotal⁵	2738.7	2646.7	2653.1	2622.9	2625.8	2873.6	2981.8	2918.5	-0.48	-1.30	-1.18	-0.23
DECD GOVERNM	ENT-CONT	ROLLED S	TOCKS									
DECD Americas												
Crude	601.5	593.7	588.3	578.9	564.9	649.1	635.0	637.8	-0.18	-0.04	-0.26	-0.32
Products	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	0.00	0.00	0.00	0.00
OECD Europe												
Crude	202.4	200.3	199.6	198.9	197.5	208.9	206.8	207.3	-0.02	0.00	-0.05	-0.03
Products	275.2	277.0	276.5	274.8	267.8	276.5	275.4	283.2	-0.05	-0.01	-0.01	-0.10
DECD Asia Ocear												
Crude	370.5	370.1	370.1	370.1	367.8	378.6	377.4	374.6	0.00	-0.05	0.01	-0.03
Products	38.9	38.9	38.4	38.0	37.9	38.8	38.9	38.8	0.00	0.00	0.00	-0.0
Total OECD												
	1174.3	1164.0	1158.0	1147.9	1130.2	1236.6	1219.2	1219.6	-0.20	-0.10	-0.31	-0.3
Products				314.8		317.3		324.0		-0.10		
-	316.1	317.9	316.9	314.8	307.6	317.3	316.3	324.0	-0.05	-0.01	-0.01	-0.1
Fotal⁵	1492.4	1483.8	1476.4	1464.2	1439.5	1556.9	1537.3	1545.8	-0.24	-0.12	-0.31	-0.49

Stocks are primary national territory stocks on land (excluding utility stocks and including pipeline and entrepot stocks where known) and include stocks held by industry to meet IEA, EU and national emergency reserve commitments and are subject to government control in emergencies.
 Closing stock levels.
 Estimated.
 Total products includes gasoline, middle distillates, fuel oil and other products.
 Total includes NGLs, refinery feedstocks, additives/oxygenates and other hydrocarbons.
 Includes government-owned stocks and stock holding organisation stocks held for emergency purposes.

Table 4a	
INDUSTRY STOCKS ¹ ON LAND IN SELECTED COUNTRIES	

		Octobe	r		Novemb	er		Decemb	er		Januar	у	F	ebruary	,
	2020	2021	%	2020	2021	%	2020	2021	%	2021	2022	%	2021	2022	%
Jnited States ²															
rude	493.9	436.6	-11.6	500.8	434.0	-13.3	485.5	421.4	-13.2	475.9	414.3	-12.9	493.2	409.1	-17.
Notor Gasoline	227.6	216.7	-4.8	241.2	220.6	-8.5	243.4	232.2	-4.6	255.1	251.8	-1.3	241.1	250.4	3.
Aiddle Distillate	196.4	175.5	-10.6	197.5	171.0	-13.4	202.5	168.0	-17.0	207.8	165.3	-20.5	185.3	162.2	
Residual Fuel Oil Other Products	31.2 292.7	28.4 250.8	-9.0 -14.3	31.1	27.6 239.3	-11.3 -12.4	30.2 241.9	25.4 217.2	-15.9 -10.2	32.0 213.5	26.7 195.4	-16.6 -8.5	31.2 198.5	27.5 178.0	-11. -10.
otal Products	292.7 747.9	250.8	-14.3	273.2 743.0	239.3	-12.4	718.0	642.8	-10.2	708.4	639.2	-6.5 -9.8	656.1	618.1	-10.
Other ³	144.4	139.4	-10.2	144.9	136.1	-6.1	139.9	129.6	-7.4	145.7	136.4	-9.8	145.6	138.2	
otal	1386.2	1247.4	-10.0	1388.7	1228.6	-11.5	1343.4	1193.8	-11.1	1330.0	1189.9	-10.5	1294.9	1165.4	-10.0
Japan															
Crude	89.7	72.8	-18.8	79.6	78.1	-1.9	79.8	72.9	-8.6	77.0	69.2	-10.1	77.0	70.7	-8.
Notor Gasoline	12.1	11.6	-4.1	12.5	10.4	-16.8	12.5	10.4	-16.8	13.5	11.3	-16.3	13.0	11.0	
liddle Distillate	38.3	36.6	-4.4	38.6	36.9	-4.4	34.6	33.0	-4.6	33.5	30.8	-8.1	30.1	26.7	-11.
Residual Fuel Oil	6.9	6.9	0.0	7.0	6.5	-7.1	6.6	7.3	10.6	6.9	7.0	1.4	7.1	6.5	-8.
Other Products	36.0	39.1	8.6	35.5	36.4	2.5	32.3	33.0	2.2	31.0	34.6	11.6	32.9	32.2	
otal Products Other ³	93.3	94.2	1.0	93.6	90.2	-3.6	86.0	83.7	-2.7	84.9	83.7	-1.4	83.1	76.4	-8.
	52.5	49.9	-5.0	52.4	50.9	-2.9	49.9	51.1	2.4	50.1	47.6	-5.0	49.1	43.7	-11.0
otal Sermany	235.5	216.9	-7.9	225.6	219.2	-2.8	215.7	207.7	-3.7	212.0	200.5	-5.4	209.2	190.8	-8.8
Crude	48.8	46.5	-4.7	50.1	47.0	-6.2	51.9	46.2	-11.0	52.7	46.1	-12.5	49.5	47.3	-4.4
Notor Gasoline	10.2	10.6	3.9	11.7	10.6	-9.4	10.9	10.7	-1.8	12.6	11.0	-12.7	11.6	10.6	-8.
/liddle Distillate	21.7	21.2	-2.3	24.3	22.4	-7.8	23.3	21.8	-6.4	27.5	23.1	-16.0	25.7	21.6	-16.
Residual Fuel Oil	7.1	8.1	14.1	7.2	8.5	18.1	6.6	8.4	27.3	7.1	8.5	19.7	7.6	8.6	13.
Other Products	9.7	10.8	11.3	9.1	10.5	15.4	9.3	10.7	15.1	9.3	10.2	9.7	9.4	10.0	6.4
Fotal Products	48.7	50.7	4.1	52.3	52.0	-0.6	50.1	51.6	3.0	56.5	52.8	-6.5	54.3	50.8	-6.4
Other ³	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
otal	97.5	97.2	-0.3	102.4	99.0	-3.3	102.0	97.8	-4.1	109.2	98.9	-9.4	103.8	98.1	-5.5
t aly Crude	40.4	31.8	-21.3	36.7	36.1	-1.6	40.1	33.0	-17.7	37.4	29.9	-20.1	34.3	30.4	-11.4
Jrude Motor Gasoline	40.4	31.8	-21.3	36.7 12.8	11.3	-1.6	40.1	33.0 10.0	-17.7	37.4	29.9 12.7	-20.1 9.5	34.3 10.6	30.4 11.3	-11.4
Aiddle Distillate	29.2	25.1	-0.8	29.3	23.8	-11.7	26.9	23.7	-16.0	29.0	26.4	9.5 -9.0	28.1	23.8	
Residual Fuel Oil	7.9	7.1	-10.1	7.6	7.5	-1.3	7.9	7.1	-10.1	8.4	7.5	-10.7	7.7	8.1	5.2
Other Products	19.4	11.1	-42.8	19.9	10.9	-45.2	19.3	10.0	-48.2	16.2	11.2	-30.9	14.0	11.3	
Total Products	68.3	55.0	-19.5	69.6	53.5	-23.1	66.0	50.8	-23.0	65.2	57.8	-11.3	60.4	54.5	-9.8
Other ³	16.1	15.4	-4.3	17.0	14.5	-14.7	16.6	13.1	-21.1	15.1	13.5	-10.6	14.5	13.1	-9.7
Total	124.8	102.2	-18.1	123.3	104.1	-15.6	122.7	96.9	-21.0	117.7	101.2	-14.0	109.2	98.0	-10.3
rance															
Crude	9.4	12.6	34.0	13.3	11.9	-10.5	12.4	8.8	-29.0	13.4	9.2	-31.3	12.3	12.4	0.8
Aotor Gasoline	5.4	4.0	-25.9	6.1	4.1	-32.8	4.8	4.5	-6.3	4.9	5.1	4.1	5.4	4.5	
Middle Distillate	24.4	17.0	-30.3	24.1	18.0	-25.3	21.5	18.6	-13.5	23.4	20.1	-14.1	25.2	16.5	
Residual Fuel Oil	1.5	1.6	6.7	1.7	1.7	0.0	2.3	0.9	-60.9	2.1	1.3	-38.1	1.8	1.3	-27.8
Other Products	4.1	3.3	-19.5	4.3	3.4	-20.9	3.4	3.4	0.0	3.5	3.4	-2.9	3.5	3.5	0.0
Fotal Products Dther ³	35.4 8.2	25.9 7.0	-26.8 -14.6	36.2 7.6	27.2 6.5	-24.9 -14.5	32.0 6.5	27.4 6.9	-14.4 6.2	33.9 7.0	29.9 7.2	-11.8 2.9	35.9 7.9	25.8 7.1	-28.1 -10.1
otal Jnited Kingdom	53.0	45.5	-14.2	57.1	45.6	-20.1	50.9	43.1	-15.3	54.3	46.3	-14.7	56.1	45.3	-19.3
Crude	27.8	24.8	-10.8	26.1	23.4	-10.3	27.9	26.2	-6.1	27.5	22.7	-17.5	24.2	26.2	8.3
Notor Gasoline	10.4	24.0	-10.8	10.7	23.4	-10.3	11.3	10.1	-10.6	12.1	10.6	-12.4	10.3	20.2	
/iddle Distillate	32.5	21.3	-34.5	30.6	22.1	-27.8	30.7	21.0	-31.6	31.6	20.4	-35.4	29.4	19.8	
Residual Fuel Oil	1.1	1.3	18.2	1.1	1.6	45.5	1.2	1.3	8.3	1.5	1.2	-20.0	1.2	1.5	25.0
Other Products	6.6	6.5	-1.5	6.5	6.1	-6.2	6.9	6.1	-11.6	6.8	6.0	-11.8	6.3	6.3	0.0
Total Products	50.6	38.6	-23.7	48.9	39.6	-19.0	50.1	38.5	-23.2	52.0	38.2	-26.5	47.2	37.2	
Other ³	8.5	9.0	5.9	8.7	9.1	4.6	7.4	8.1	9.5	7.3	7.6	4.1	7.1	7.9	11.3
otal	86.9	72.4	-16.7	83.7	72.1	-13.9	85.4	72.8	-14.8	86.8	68.5	-21.1	78.5	71.3	-9.2
Canada⁴															
Crude	118.4	137.9	16.5	122.2	137.5	12.5	124.4	132.3	6.4	124.0	121.7	-1.9	124.8	118.7	-4.9
Notor Gasoline	16.6	15.1	-9.0	17.5	16.1	-8.0	17.3	16.0	-7.5	17.8	17.5	-1.7	16.4	16.5	0.
Aiddle Distillate	18.0	16.7	-7.2	18.2	17.6	-3.3	19.6	18.3	-6.6	20.7	18.7	-9.7	20.3	18.0	-11.
Residual Fuel Oil	2.7 11.0	2.7 10.7	0.0	2.6 11.2	2.2	-15.4	2.3 10.8	2.1 11.8	-8.7	2.7 11.9	1.7	-37.0	2.3	2.2 12.9	-4.
Other Products Total Products	11.0 48.3	10.7 45.2	-2.7 -6.4	11.2 49.5	12.0 47.9	7.1 -3.2	10.8 50.0	11.8 48.2	9.3 -3.6	11.9 53.1	12.2 50.1	2.5 -5.6	12.5 51.5	12.9 49.6	3. -3.
otal Products Dther ³	48.3 30.3	45.2 25.3	-6.4 -16.5	49.5 29.4	47.9 23.8	-3.2 -19.0	50.0 27.3	48.2 21.7	-3.6 -20.5	53.1 23.8	50.1 19.4	-5.6 -18.5	51.5 20.2	49.6 19.3	-3. -4.
20101	30.3	20.3	-10.5	29.4	∠3.8	-19.0	21.3	21./	-∠U.O	∠3.8	19.4	-10.D	20.2	19.3	-4.

Stocks are primary national territory stocks on land (excluding utilitity stocks and including pipeline and entrepot stocks where known) and include stocks held by industry to meet IEA, EU and national emergency reserve commitments and are subject to government control in emergencies.
 US figures exclude US territories.
 Other includes NGLs, refinery feedstocks, additives/oxygenates and other hydrocarbons.
 Canadian stock information for recent months is the administration's best estimate. Data are usually finalised three months after first publication.

12 May 2022

				T <u>ab</u>	le 5					
		ΤΟΤΑ		S ON LAN	ID IN OEC		RIES ¹			
		March 2021		June 2021	End Septe		End Decen			larch 2022
	Stock Level	Days Fwd ² Demand	Stock Level	Days Fwd Demand	Stock Level	Days Fwd Demand		Days Fwd Demand	Stock Level	Days Fwd Demand
DECD Americas		Demand	Level	Demand	Level	Demana	Level	Demana	Level	Demand
Canada	198.3	89	201.6	81	198.3	82	202.3			_
Chile	9.7	30	11.7	31	10.4	28	10.8	-	-	-
lexico	38.1	27	36.4	26	36.0	20	36.7			
Jnited States ⁴	1941.5	97	1894.8	94	1860.5	91	1789.5			
otal ⁴	2209.7	91	2166.6	88	2127.3	86	2061.5	84	1984.3	80
ECD Asia Oceania	2200.1		2100.0	00	2127.0	00	2001.0	04	1004.0	
ustralia	43.5	40	39.8	40	41.1	38	37.8			
srael	43.5	40	39.0	40	41.1	30	37.0	-	-	
	- 506.5	- 164	- 528.6	- 166	- 525.1	- 143	- 519.4	-	-	
apan Korea	201.5	81	528.6 194.9	75	525.1 189.3	70	168.8	-	-	
lew Zealand	201.5	57	7.6	75 56	8.3	54	6.8	-	-	
otal	759.7	108	7.0	108	763.7	98	732.8	93	723.4	100
	159.1	100	770.9	100	103.1	90	732.0	93	123.4	100
ECD Europe ⁵					- · ·					
ustria	23.6	97	23.0	84	21.1	83	20.9	-	-	
elgium	51.2	82	51.0	83	47.1	70	43.3	-	-	
zech Republic	23.1	108	21.8	93	21.7	97	22.5	-	-	
enmark	31.7	229	28.1	189	25.3	171	23.8	-	-	
stonia	2.9	107	2.9	99	2.7	102	2.5	-	-	
inland	39.1	230	39.5	209	37.3	191	36.2	-	-	
rance	162.1 278.0	112 134	163.0 275.7	100 123	157.3 270.4	98 116	151.6 268.9	-	-	
ermany		134	275.7	123		92		-	-	
ireece	34.4 25.8	144	30.5 25.6	100	26.4 25.9	92 138	28.4 27.0	-	-	
lungary eland	25.8	87	25.6 12.0	83	25.9 10.6	138	27.0	-	-	
		87 110	12.0	03 103		94		-	-	
aly	126.8 3.0	82	3.0	70	118.0 2.7	94 75	112.5 2.6	-	-	
atvia ithuania	3.0 7.8	02 116	3.0 8.5	113	2.7	131	8.2	-	-	
uxembourg	0.6	13	0.8	14	0.5	9	0.6		-	
letherlands	158.1	196	147.2	181	125.8	9 160	109.5	-	-	
lorway	28.2	146	23.6	99	20.2	81	21.4		-	
oland	82.7	146	80.0	103	78.1	104	80.6	-		
ortugal	20.7	98	19.9	90	19.0	82	20.9		-	
lovak Republic	12.3	144	12.3	136	12.2	138	12.2			
lovenia	5.3	117	5.3	100	4.9	99	5.2			
pain	121.7	107	118.8	96	4.9	89	104.9	-		
weden	48.8	162	45.2	144	38.3	123	30.1	-		
witzerland	33.7	192	32.9	178	33.4	156	31.5	-		
urkev	84.4	91	85.1	74	85.6	82	87.4		_	
Inited Kingdom	76.9	61	76.2	58	71.6	52	72.8	-		
otal	1494.9	118	1461.0	106	1377.0	99	1336.2	102	1357.6	101
otal OECD	4464.2	118	4398.5	97	4268.0	99 92	4130.5	91	4065.3	101
					4208.0			•••		
DAYS OF IEA Net Import	s° -	240	-	167	-	160	-	156	-	-

 UATS OF IEA Net Imports" 240
 167
 160

 1 Total Stocks are industry and government-controlled stocks (see breakdown in the table below). Stocks are primary national territory stocks on land (excluding utility stocks and including pipeline and entrepot stocks where known) they include stocks held by industry to meet IEA, EU and national emergency reserves commitments and are subject to government control in emergencies.

 2 Note that days of forward demand represent the stock level divided by the forward quarter average daily demand and is very different from the days of net imports used for the calculation of IEA. Emergency Reserves.
 3 End March 2022 forward demand figures are IEA Secretariat forecasts.

 4 US figures exclude US territories. Total includes US territories.
 5 Data not available for locland.
 6 Reflects stock levels and prior calendar year's net imports adjusted according to IEA emergency reserve definitions (see www.iea.org/netimports.asp). Net exporting IEA countries are excluded.

TOTAL OFOD STOCKS

	IOTAL OECD STOCKS												
CLOSING STOCKS	Total	Government ¹	Industry	Total	Government ¹	Industry							
		controlled			controlled								
		Millions of Barrels			Days of Fwd. Deman	d²							
1Q2019	4430	1557	2874	94	33	61							
2Q2019	4483	1549	2934	93	32	61							
3Q2019	4488	1544	2944	94	32	62							
4Q2019	4429	1535	2894	98	34	64							
1Q2020	4519	1537	2982	121	41	80							
2Q2020	4779	1561	3217	113	37	76							
3Q2020	4733	1551	3182	111	36	74							
4Q2020	4579	1541	3038	109	37	72							
1Q2021	4464	1546	2918	102	35	67							
2Q2021	4398	1524	2875	97	33	63							
3Q2021	4268	1513	2755	92	33	59							
4Q2021	4130	1484	2647	91	33	58							
1Q2022	4065	1439	2626	89	32	58							

1 Includes government-owned stocks and stock holding organisation stocks held for emergency purposes. 2 Days of forward demand calculated using actual demand except in 1Q2022 (where latest forecasts are used).

IEA	MEMI	BER C	OUNTR	Y DESTIN	Table ATION		SELECT	ED CRUI	DE STR	REAMS ¹		
				(n	nillion barrel	s per day)					Year E	arlier
_	2019	2020	2021	1Q21	2Q21	3Q21	4Q21	Dec 21	Jan 22	Feb 22	Feb 21	change
Saudi Light & Extra Light												
Americas	0.20	0.26	0.34	0.18	0.31	0.45	0.43	0.45	0.36	0.42	0.08	0.33
Europe	0.68	0.59	0.48	0.43	0.40	0.55	0.55	0.53	0.51	0.48	0.41	0.08
Asia Oceania	1.42	1.39	1.30	1.41	1.12	1.18	1.48	1.77	1.65	1.59	1.60	-0.01
Saudi Medium	0.40	0.4.4	0.04	0.00								
Americas Europe	0.12 0.02	0.14 0.02	0.01 0.01	0.06 0.01	-	- 0.02	-	-	-	-		-
Asia Oceania	0.23	0.25	0.21	0.22	0.17	0.19	0.26	0.27	0.25	0.17	0.19	-0.02
Canada Heavy												
Americas	2.27	2.39	2.59	2.62	2.43	2.47	2.82	2.89	2.49	2.92	2.51	0.41
Europe	0.04	0.03	0.03	0.04	0.03	0.04	0.03	0.04	0.02	0.02	0.06	-0.03
Asia Oceania	0.00	0.00	0.02	0.01	0.04	0.01	0.00	-	-	0.01	0.02	-0.01
Iraqi Basrah Light ²												
Americas	0.31	0.11	0.08	0.06	0.05	0.04	0.17	0.26	0.21	0.15	-	-
Europe Asia Oceania	0.85 0.37	0.58 0.22	0.62 0.17	0.56 0.15	0.63 0.17	0.60 0.16	0.68 0.19	0.49 0.19	0.30 0.12	0.49 0.21	0.58 0.17	-0.09 0.03
	0.07	0.22	0.11	0.10	0.11	0.10	0.10	0.10	0.12	0.21	0.11	0.00
Kuwait Blend Americas	-	-	-	-	-	-	_	-	-	-		-
Europe	0.11	0.04	-	-	-	-	-	-	-	-	-	-
Asia Oceania	0.61	0.55	0.48	0.47	0.45	0.47	0.52	0.50	0.61	0.56	0.51	0.05
Iranian Light												
Americas	-	-	-	-	-	-	-	-	-	-	-	-
Europe	0.00	-	-	-	-	-	-	-	-	-	-	-
Asia Oceania	0.00	-	-	-	-	-	-	-	-	-	-	-
Iranian Heavy ³												
Americas	- 0.04	-	-	-	-	-	-	-	-	-	-	-
Europe Asia Oceania	0.04	-	-	-	-	-	-	-	-	-	-	-
BFOE Americas	0.00	-	0.00	-	0.00	0.01	-	-	-	-		-
Europe	0.37	0.42	0.36	0.39	0.28	0.36	0.40	0.46	0.48	0.31	0.40	-0.10
Asia Oceania	0.01	0.03	0.05	0.08	0.07	-	0.05	0.06	-	0.08	0.07	0.00
Kazakhstan												
Americas	-	-	0.01	-	0.03		-		-	-	-	-
Europe Asia Oceania	0.76 0.18	0.74 0.07	0.70 0.09	0.73 0.07	0.73 0.10	0.68 0.10	0.66 0.10	0.75 0.14	0.88 0.10	0.78 0.15	0.64 0.08	0.14 0.08
		0.07	0.05	0.07	0.10	0.10	0.10	0.14	0.10	0.15	0.00	0.00
Venezuelan 22 API and hea Americas	avier 0.05	-			-							_
Europe	0.09	0.04	-		-	-	-		-			-
Asia Oceania	-	-	-	-	-	-	-	-	-	-	-	-
Mexican Maya												
Americas	0.51	0.48	0.40	0.36	0.45	0.45	0.32	0.30	0.40	0.32	0.33	-0.01
Europe	0.19	0.16	0.14	0.15	0.15	0.13	0.12	0.13	0.13	0.10	0.18	-0.08
Asia Oceania	0.13	0.12	0.14	0.15	0.12	0.14	0.13	0.10	0.09	0.11	0.18	-0.07
Russian Urals												
Americas Europe	0.01 1.37	- 1.12	- 1.05	- 0.97	- 0.99	- 1.08	- 1.14	- 0.97	- 1.23	- 1.06	- 0.91	- 0.15
Asia Oceania	-	-	0.01	0.01	- 0.35	0.03	-	- 0.57	- 1.25	-	0.03	-
Cabinda and Other Angola												
North America	0.01	0.01	-	-	-	-	-	-	-	-	-	-
Europe	0.15	0.12	0.03	0.02	0.04	0.03	0.04	0.03	0.03	0.03	-	-
Pacific	0.00	-	-	-	-	-	-	-	-	-	-	-
Nigerian Light ⁴												
Americas	0.03	-	0.02	-	0.06	0.03	-	-	-	-	-	-
Europe Asia Oceania	0.51 0.02	0.49 0.02	0.41 0.01	0.41 0.00	0.30 0.01	0.40	0.52 0.01	0.48	0.38	0.45	0.38	0.06
	0.02	0.02	0.01	0.00	0.01	-	0.01	-	-	-		-
Libya Light and Medium Americas	0.00	-	0.02	-	0.03	0.06	-	-	-	-	-	
Europe	0.00	0.19	0.02	0.75	0.03	0.06	0.76	0.74	0.44	0.80	0.73	0.07
Asia Oceania	0.03	0.01	0.02	0.01	0.02	0.01	0.03	0.03	0.03	0.02	0.02	0.00
1 Data based on monthly submission	ne from IEA	countries to t	he crude oil im	nort register (in '00	0 bbl) subia	ct to availabi	ity. May differ fr	rom Table 8 of th	e Report IE/	Americas inclu	dee United States	

Table 6

Data based on monthly submissions from IEA countries to the crude oil import register (in '000 bbi), subject to availability. May differ from Table 8 of the Report. IEA Americas includes United States and Canada. IEA Europe includes all countries in OECD Europe except Estonia, Hungary, Slovenia and Latvia. IEA Asia Oceania includes Australia, New Zealand, Korea and Japan.
 Iraqi Total minus Kirkuk.
 Iranian Total minus Finanian Light.
 33° API and lighter (e.g., Bonny Light, Escravos, Qua Iboe and Oso Condensate).

					Tal	ole 7						
				REGIO			PORTS ^{1,2}					
						arrels per day						
											Year E	
	2019	2020	2021	1Q21	2Q21	3Q21	4Q21	Dec 21	Jan 22	Feb 22	Feb 21	% chang
Crude Oil												
Americas	2726	1896	2077	1695	2109	2367	2129	2178	2095	2075	1766	17%
Europe	9872	8349	8510	7780	8382	8748	9115	8755	8897	9492	7539	26%
Asia Oceania Total OECD	6542 19139	5603 15848	5529 16116	5336 14812	5459 15951	5431 16546	5883 17127	5912 16845	6189 17181	6120 17687	5690 14995	8% 18%
	10100	10040	10110	14012	10001	10040		10040		11001	14000	10/6
LPG	26	28	21	21	16	22	25	31	30	52	26	99%
Americas Europe	20 434	20 422	404	394	421	378	25 424	530	30 471	52 494	20 345	99% 43%
Asia Oceania	582	559	404 563	642	555	528	528	584	664	669	545 747	-11%
Total OECD	1042	1009	988	1057	992	927	976	1144	1165	1215	1119	9%
	1042	1003	300	1057	332	521	3/0	1144	1105	1215	1113	370
Naphtha	_	_		_	_				_			
Americas	5	7	8	7	7	11	8	14	7	3	6	-47%
Europe Asia Oceania	347	409	512 1140	526	514	445	563	538	426	397	454	-13%
	993	1005 1422	1149	1087	1076 1597	1229	1201	1284	1169	1096	1204	-9%
Total OECD	1345	1422	1669	1620	1597	1685	1773	1836	1602	1495	1664	-10%
Gasoline ³												
Americas	822	577	803	597	1074	973	565	524	401	549	472	16%
Europe	112	109	108	102	159	75	98	185	119	116	214	-46%
Asia Oceania	114	126	157	155	196	135	140	167	168	139	187	-25%
Fotal OECD	1048	812	1068	854	1429	1183	803	876	687	804	872	-8%
Jet & Kerosene												
Americas	174	159	164	108	166	207	175	161	127	122	104	17%
Europe	520	337	335	281	291	349	416	470	276	307	278	11%
Asia Oceania	76	63	75	100	71	43	86	96	73	89	130	-31%
Total OECD	770	559	574	489	528	600	677	727	476	518	512	1%
Gasoil/Diesel												
Americas	118	134	197	266	149	154	222	126	124	269	199	35%
Europe	1300	1192	1192	1117	1213	1173	1264	1086	1130	1120	1199	-7%
Asia Oceania	262	328	355	336	353	345	385	359	267	319	308	3%
Total OECD	1680	1655	1744	1718	1715	1672	1870	1571	1521	1707	1707	0%
Heavy Fuel Oil												
Americas	116	143	102	116	96	91	104	115	62	206	103	99%
Europe	223	295	376	369	314	435	384	461	276	350	327	7%
Asia Oceania	101	88	119	109	116	121	129	146	135	153	111	38%
Total OECD	440	526	596	594	526	648	617	722	473	709	541	31%
Other Products												
Americas	716	591	580	505	698	607	510	486	442	485	455	7%
Europe	865	574	578	515	510	585	699	604	571	811	407	99%
Asia Oceania	268	241	260	246	260	267	267	267	227	266	249	7%
Total OECD	1849	1406	1418	1266	1468	1458	1476	1357	1240	1562	1110	41%
Fotal Products												
Americas	1978	1639	1875	1620	2205	2064	1607	1457	1193	1685	1365	23%
Europe	3800	3339	3505	3304	3422	3440	3849	3874	3270	3595	3224	12%
Asia Oceania	2397	2410	2676	2674	2627	2668	2736	2903	2702	2731	2936	-7%
Total OECD	8175	7388	8056	7598	8255	8172	8192	8233	7164	8010	7525	6%
Total Oil												
Americas	4703	3535	3952	3315	4315	4431	3736	3634	3288	3760	3132	20%
Europe	13672	11688	12016	11084	11804	12187	12964	12629	12166	13086	10763	22%
Asia Oceania	8939	8014	8205	8011	8087	8100	8619	8815	8891	8851	8625	3%
	27314	23236	24173		24206	24718	25319	25078	24345	25698		14%

Based on Monthly Oil Questionnaire data submitted by OECD countries in tonnes and converted to barrels.
 Excludes intra-regional trade.
 Includes additives.

					Tab	le 7a						
		REGIO	NAL O	ECD IMPC	ORTS FI	ROM NO	ON-OEC		rries ^{1,}	2		
											Year	Earlier
	2019	2020	2021	1Q21	2Q21	3Q21	4Q21	Dec 21	Jan 22	Feb 22	Feb 21	% change
Crude Oil												
Americas	2576	1835	1982	1613	2006	2275	2028	2063	2029	1998	1696	18%
Europe	8913	7115	7259	6643	7109	7455	7815	7446	7608	8117	6426	26%
Asia Oceania	5914	5076	4915	4710	4840	4785	5320	5503	5559	5390	5022	7%
Total OECD	17403	14027	14157	12966	13956	14515	15163	15012	15197	15505	13145	18%
LPG												
Americas	23	22	20	19	16	22	25	31	24	52	18	190%
Europe	303	252	242	244	228	245	250	274	228	286	237	21%
Asia Oceania	74	57	46	58	60	35	33	44	74	85	26	223%
Total OECD	400	331	309	321	304	302	308	349	326	423	281	51%
Naphtha												
Americas	2	1	4	4	2	5	5	11	5	0	4	-99%
Europe	320	390	425	427	452	337	485	526	331	377	382	-1%
Asia Oceania	898	835	977	870	948	1012	1075	1177	950	990	892	11%
Total OECD	1220	1226	1406	1301	1402	1354	1565	1714	1285	1367	1278	7%
Gasoline ³												
	200	105	040	474	220	240	474	400	77	00	444	440/
Americas	308	195	248	174	330	312	174	163	77 93	99	111	-11%
Europe Asia Oceania	108	104	102	98	152	70	89	179		106	210	-50%
Total OECD	88 504	109 408	152 502	144 417	189 671	135 518	140 404	167 509	168 339	139 344	180 501	-23% - 31%
	504	400	502	417	0/1	510	404	505	555	344	501	-3170
Jet & Kerosene			00	04	00	05	00	445	54	47	40	0000/
Americas	41	55	63	31	63	65	93	115	51	47	12	306%
Europe	464	297	299	248	273 71	309	367	425	275	300	242 130	24%
Asia Oceania Total OECD	76 581	63 415	75 437	100 378	406	43 418	86 545	96 636	73 399	89 437	384	-31% 14%
				0.0			0.0					
Gasoil/Diesel									~ ~ ~	470		
Americas	86	103	134	203	94	94	146	88	61	172	157	9%
Europe	1126	1062	1110	1045	1136	1070	1188	1006	1078	1026	1122	-9%
Asia Oceania	261	324	355	336	353	345	385	359	267	319	308	3%
Total OECD	1473	1489	1598	1583	1582	1509	1719	1453	1406	1517	1588	-4%
Heavy Fuel Oil												
Americas	102	110	86	105	84	78	77	100	62	121	94	28%
Europe	202	279	350	341	280	417	360	452	258	346	310	12%
Asia Oceania	100 404	88 477	119 554	109	116 480	121	129 565	146 698	135 456	153 621	111 515	38% 21%
Total OECD	404	4//	554	555	400	615	305	030	400	021	515	2170
Other Products												
Americas	543	513	530	469	631	556	463	437	403	449	437	3%
Europe	629	352	401	358	335	398	511	405	405	616	294	109%
Asia Oceania	184	164	182	176	198	178	176	154	172	178	195	-9%
Total OECD	1356	1029	1113	1003	1164	1133	1150	995	981	1243	926	34%
Total Products												
Americas	1106	1000	1084	1005	1219	1131	983	944	684	941	833	13%
Europe	3152	2735	2929	2760	2856	2847	3250	3268	2669	3058	2796	9%
Asia Oceania	1681	1640	1906	1793	1934	1871	2023	2143	1839	1953	1843	6%
Total OECD	5939	5375	5920	5558	6009	5849	6256	6354	5191	5952	5473	9%
Total Oil												
Americas	3682	2835	3067	2618	3225	3406	3010	3007	2713	2938	2529	16%
Europe	12064	9850	10189	9403	9966	10302	11065	10713	10277	11175	9222	21%
Asia Oceania	7595	6716	6821	6503	6775	6656	7343	7646	7398	7344	6866	7%

Based on Monthly Oil Questionnaire data submitted by OECD countries in tonnes and converted to barrels.
 Excludes intra-regional trade
 Includes additives

					Tab	le 7b						
			INTE	ER-REGI		DECD T		ERS ^{1,2}				
					(inousand be		,				Year	Earlier
	2019	2020	2021	1Q21	2Q21	3Q21	4Q21	Dec 21	Jan 22	Feb 22	Feb 21	% change
Crude Oil												
Americas	149	60	95	83	104	92	101	115	66	78	70	11%
Europe	959	1234	1251	1137	1272	1293	1300	1309	1288	1375	1114	23%
Asia Oceania	628	527	614	627	619	646	563	409	630	730	667	9%
Total OECD	1736	1821	1960	1846	1995	2031	1964	1834	1984	2182	1851	18%
LPG												
Americas	3	6	1	3	0	0	0	0	6	0	8	-100%
Europe	131	171	162	150	193	132	173	255	243	208	108	92%
Asia Oceania	508	501	517	584	495	493	495	540	590	584	721	-19%
Total OECD	642	678	679	737	688	625	669	795	839	791	837	-6%
Naphtha												
Americas	3	6	4	3	4	6	2	3	2	3	2	100%
Europe	27	20	87	99	62	108	79	11	95	19	73	-73%
Asia Oceania	96	170	172	217	128	216	126	107	219	106	311	-66%
Total OECD	125	196	263	319	195	330	207	122	317	128	386	-67%
Gasoline ³												
Americas	514	382	555	423	744	661	391	362	323	450	361	25%
Europe	4	5	6	3	7	5	9	5	26	10	4	138%
Asia Oceania	26	18	5	11	8	0	0	0	0	0	7	-100%
Total OECD	544	404	565	437	759	665	399	367	349	460	372	24%
Jet & Kerosene												
Americas	133	103	101	77	103	142	83	46	75	75	93	-19%
Europe	56	40	35	33	19	40	49	45	2	7	36	-81%
Asia Oceania	0	0	0	0	0	0	0	0	0	0	0	na
Total OECD	190	144	137	110	122	182	132	91	77	82	128	-36%
Gasoil/Diesel												
Americas	32	31	63	63	55	60	76	38	63	97	42	128%
Europe	174	131	82	72	77	103	76	81	52	94	77	22%
Asia Oceania	1	4	0	0	0	0	0	0	0	0	0	na
Total OECD	207	166	145	135	132	163	151	118	115	191	119	60%
Heavy Fuel Oil												
Americas	14	33	16	11	12	13	27	15	0	84	9	859%
Europe	21	16	26	29	34	19	25	9	18	4	17	-76%
Asia Oceania	1	0	0	0	0	0	0	0	0	0	0	na
Total OECD	36	49	42	39	46	32	52	24	18	89	26	240%
Other Products												
Americas	173	78	50	37	67	51	47	50	39	35	18	99%
Europe	236	222	177	157	175	187	189	200	165	195	113	73%
Asia Oceania	83	77	78	70	62	88	91	113	54	88	53	66%
Total OECD	493	377	305	263	304	326	326	362	259	319	184	73%
Total Deadlinets												
Total Products	070	600	700	045	000	000	605	540	500	744	500	400/
Americas	872	639 604	790 576	615 542	986 566	933	625	513	509 601	744 527	532 427	40%
Europe Asia Oceania	649 716	604 770	576 771	543 881	566 693	593 797	599 712	606 760	601 863	537 777	427 1092	26% -29%
Total OECD	2236	2013	2137	2040	2246	2323	1936	1879	1973	2059	2052	-29% 0%
	2230	2013	215/	2040	2240	2525	1990	10/9	1913	2039	2052	070
Total Oil												
Americas	1021	699	885	698	1090	1025	726	628	574	822	602	36%
Europe	1608	1838	1827	1681	1839	1886	1899	1915	1889	1912	1541	24%
Asia Oceania	1343	1297	1384	1508	1312	1444	1275	1169	1494	1508	1759	-14%
Total OECD	3972	3835	4096	3886	4241	4354	3901	3712	3958	4241	3903	9%

Based on Monthly Oil Questionnaire data submitted by OECD countries in tonnes and converted to barrels.
 Excludes intra-regional trade
 Includes additives

	REGI	ONAL_	OFCD	Table CRUDE		RT <u>S B</u>						
	REGI	UNAL		housand barre			1 3001	10E				
	2019	2020	2021	1Q21	2Q21	3Q21	4Q21	Dec 21	Jan 22	Feb 22	Year E	
		2020	2021	1421		- UQLI		20021	our 22	100 22	10021	
DECD Americas Venezuela	81				_		_			-	_	
Other Central & South America	868	- 745	- 719	- 648	- 689	809	731	- 762	768	826	- 737	8
North Sea	148	59	92	83	93	92	101	115	66	78	70	
Other OECD Europe	2	1	3	-	11	-	-	-	-	-	-	
Non-OECD Europe Former Soviet Union	- 192	- 91	- 229	- 128	- 295	- 307	- 185	- 132	- 63	- 110	- 56	4
Saudi Arabia	621	588	427	331	370	483	520	574	554	517	363	1
Kuwait	45	21	21	7	20	36	20	12	46	13	23	-
Iran	- 331	- 177	3 152	12 115	- 172	- 128	- 192	- 223	16 254	- 235	-	1
Iraq Oman			152	- 115	- 172	120	192	- 223	254	235	121	
United Arab Emirates	3	5	17	-	-	44	22	32	30	-	-	
Other Middle East	-	-	-	-	-	-	-	-	-	-	-	
West Africa ²	267	145	228	206	272	255	180	180	143	178	120	
Other Africa Asia	137 32	45 17	161 25	149 17	172 16	167 46	157 22	148	156	117	278	-10
Other	0	3	- 25	-	-	40	-	-	-	-	-	
otal	2726	1896	2077	1695	2109	2367	2129	2178	2095	2075	1766	3
f which Non-OECD	2576	1835	1982	1613	2006	2275	2028	2063	2029	1998	1696	3
ECD Europe												
Canada	60	95	83	108	81	89	55	45	88	100	96	
Mexico + USA	900	1139	1168	1029	1191	1204	1245	1265	1200	1274	1017	2
Venezuela Other Central & South America	106 118	44 208	- 219	- 143	- 272	- 263	- 194	- 301	- 239	- 180	- 150	
Non-OECD Europe	14	200	213	23	19	203	23	23	239	26	23	
Former Soviet Union	4239	3504	3524	3305	3466	3525	3797	3674	4103	4528	3233	12
Saudi Arabia	792	756	521	517	484	587	494	423	498	459	524	
Kuwait Iran	97 74	48 6	0 1	-	-	0 6	0	0	-	-	-	
Iraq	1124	814	895	- 783	- 916	927	- 951	- 650	- 556	662	- 837	-1
Oman	-	-	-	-	-		-	-	-	-	-	
United Arab Emirates	2	-	-	-	-	-	-	-	-	-	-	
Other Middle East	3	8	9	6	12	12	6	-	-	-	6	
West Africa ² Other Africa	1140 1180	1074 596	821 1185	780 1071	719 1204	842 1228	942 1233	873 1007	780 855	694 975	602 1051	-
Asia	-	0	0	-	- 1204	0	-	-	- 000		-	
Other	13	11	38	-	-	-	151	431	502	558	-	
otal which Non-OECD	9863 8913	8329 7115	8487 7259	7766 6643	8364 7109	8712 7455	9091 7815	8690 7446	8840 7608	9456 8117	7539 6426	19 16
E CD Asia Oceania Canada	5	1	16	17	38	5	3	-	-	11	18	
Mexico + USA	613	477	500	493	491	554	463	311	614	642	574	
/enezuela Dther Central & South America	- 48	- 91	- 110	- 107	- 145	- 93	- 97	- 126	- 141	- 84	- 137	
Joner Central & South America	48 10	49	98	107	90	93 87	97 97	98	141	84 77	75	
Other OECD Europe	-	-	-	-	-	-	-	-	-	-	-	
Non-OECD Europe	-	-	-	-	-	-	-	-	-	-	-	
Former Soviet Union Saudi Arabia	435 1878	300 1867	335 1766	328 1868	372 1574	265 1601	376 2020	360 2392	423 2156	403 2025	263 2066	
Kuwait	666	584	506	482	484	493	2020 563	2392 549	633	2025 624	2066 528	
Iran	137	-	-	-	-	-	-	-	-	-	-	
Iraq	364	224	167	151	165	160	192	189	124	207	175	
Oman United Arab Emirates	59 1256	22 1096	32 1083	15 908	43 1094	49 1143	22 1184	16 1256	16 1081	18 1084	- 906	
Other Middle East	449	387	362	396	383	371	301	335	471	425	394	
West Africa ²	56	65	80	46	119	77	79	45	60	35	61	
Other Africa	90	42	50	59	35	68	39	61	50	22	49	
Non-OECD Asia Other	220 255	161 234	170 248	193 155	161 264	174 285	153 288	141 26	128 266	137 323	210 235	
otal	6542	5602	5524	5336	5455	5424	5877	5906	6181	6117	5690	4
which Non-OECD	5914	5076	4915	4710	4840	4785	5320	5503	5559	5390	5022	3
otal OECD Trade	19130	15826	16089	14798	15929	16502	17097	16774	17115	17648	14995	26
f which Non-OECD	17403	14027	14157	12966	13956	14515	15163	15012	15197	15505	13145	23

				Table								
I	REGION	IAL O	ECD GA	SOLIN	E IMP(Is per day)	ORTSI	BY SO	URCE ¹				
											Year Ea	arlier
	2019	2020	2021	1Q21	2Q21	3Q21	4Q21	Dec 21	Jan 22	Feb 22	Feb 21	
OECD Americas												
Venezuela	4	-	-	-	-	-	-	-	-	-	-	-
Other Central & South America	83	40	41	10	67	37	51	52	9	6	5	1
ARA (Belgium Germany Netherlands)	190	149	193	127	312	240	93	113	107	128	84	44
Other Europe	296	213	326	274	380	380	268	223	197	291	253	39
FSU	79	57	82	83	98	92	57	42	12	40	58	-18
Saudi Arabia	7	6	24	4	50	41	-	-	-	-	7	-
Algeria	-	4	1	4	-	-	-	-	-	-	-	-
Other Middle East & Africa	14	13	13	23	12	15	4	-	5	7	9	-2
Singapore	5	1	4	4	3	8	3	-	-	-	-	-
OECD Asia Oceania	28	21	37	21	52	43	30	26	19	30	24	6
Non-OECD Asia (excl. Singapore)	116	72	81	47	99	116	60	68	52	46	32	14
Other	0	-	0	0	-	-	-	-	-	-	-	-
Total ²	822	577	803	597	1074	973	565	524	401	549	472	77
of which Non-OECD	308	195	248	174	330	312	174	163	77	99	111	-12
or which Non-DECD	300	195	240	1/4	330	312	174	103		33		-12
OECD Europe												
OECD Americas	3	3	5	2	5	3	8	5	23	10	2	8
Venezuela	0	0	2	1	1	5	-	-	4	-	-	-
Other Central & South America	3	4	7	8	2	11	5	-	5	30	-	-
Non-OECD Europe	18	16	10	9	16	10	6	9	9	1	12	-12
FSU	54	31	8	13	7	9	2	2	12	7	23	-16
Saudi Arabia	0	8	3	-	-	13	0	-	-	-	-	-
Algeria	0	1	-	-	-	-	-	-	-	-	-	-
Other Middle East & Africa	8	3	5	8	6	3	2	1	3	9	1	8
Singapore	3	2	0	-	-	0	0	0	1	1	-	-
OECD Asia Oceania	1	1	1	1	2	1	1	0	3	-	2	-
Non-OECD Asia (excl. Singapore)	0	0	3	3	2	2	3	3	3	3	3	0
Other	21	37	65	57	117	15	70	165	57	55	170	-115
Total ²	112	107	108	102	159	75	98	185	119	116	214	-98
of which Non-OECD	108	104	102	98	152	70	89	179	93	106	210	-104
	100	104	102	50	192	10	05	173	55	100	210	-104
OECD Asia Oceania												
OECD Americas	6	4	1	2	0	0	0	0	-	0	7	-6
Venezuela	-	-	-	-	-	-	-	-	-	-	-	-
Other Central & South America	-	-	-	-	-	-	-	-	-	-	-	-
ARA (Belgium Germany Netherlands)	14	4	4	9	7	0	0	0	0	-	-	-
Other Europe	5	10	-	-	-	-	-	-	-	-	-	-
FSU	0	0	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	1	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-	-
Other Middle East & Africa	-	1	-	-	-	-	-	-	-	-	-	-
Singapore	46	51	100	86	98	97	121	148	125	115	120	-5
Non-OECD Asia (excl. Singapore)	21	37	29	39	58	19	0	-	23	3	39	-36
Other	21	19	23	20	33	19	19	19	19	21	21	0
Total ²	114	126	157	155	196	135	140	167	168	139	187	-48
of which Non-OECD	88	109	152	144	189	135	140	167	168	139	180	-41
		100	152	144	.00	100	. 70	107	100	.00	100	1
Total OECD Trade ²	1048	810	1068	854	1429	1183	803	876	687	804	872	-69
of which Non-OECD	504	408	502	417	671	518	404	509	339	344	501	-157
	504	400	302	417	0/1	510	404	209	229	344	501	-15/

1 Based on Monthly Oil Questionnaire data submitted by OECD countries in tonnes. 2 Total figure excludes intra-regional trade.

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				Table								
REC	GIONAI	- OEC	D GAS(DIL/DIE	SEL IN	IPORT	SBYS	SOURCE	Ξ ¹			
											Year Ea	arlier
	2019	2020	2021	1Q21	2Q21	3Q21	4Q21	Dec 21	Jan 22	Feb 22	Feb 21 o	
DECD Americas												
Venezuela	1	-	-	-	-	-	-	-	-	-	-	
Other Central and South America	38	34	28	40	30	24	20	9	7	-	50	
ARA (Belgium Germany Netherlands)	5	11	34	51	31	30	22	-	24	76	12	6
Other Europe	2	4	5	2	9	1	10	0	0	8	-	
FSU	6	12	25	35	21	10	33	11	-	77	21	5
Saudi Arabia	3	8	15	23	9	11	18	12	6	52	3	5
Algeria	-	-	-	-	-	-	-	-	-	-	-	
Other Middle East and Africa	2	9	25	48	8	18	26	26	-	19	39	-1
Singapore	0	-	2	-	2	8	-	-	7	-	-	
OECD Asia Oceania	24	16	25	10	15	29	44	38	39	13	31	-1
Non-OECD Asia (excl. Singapore)	30	34	27	48	16	12	31	24	0	-	40	
Other	7	6	12	8	8	11	18	6	41	23	5	1
Fotal ²	118	134	197	266	149	154	222	126	124	269	199	6
of which Non-OECD	86	103	134	203	94	94	146	88	61	172	157	1
		100	104	200	••	••	140		•1		107	
DECD Europe												
OECD Americas	138	99	40	34	38	55	33	51	18	52	33	1
Venezuela	-	-	-	-	-	-	-	-	-	-	-	
Other Central and South America	0	3	1	-	1	1	3	9	-	-	-	
Non-OECD Europe	41	30	35	39	40	30	32	33	40	22	34	-1
FSU	608	627	611	698	687	546	514	484	550	617	737	-12
Saudi Arabia	205	193	139	137	128	142	150	119	174	39	167	-12
Algeria	0	2	-	-	-	-	-	-	-	-	-	
Other Middle East and Africa	83	71	157	65	143	198	220	220	208	103	93	1
Singapore	27	17	18	10	18	24	21	27	1	79	12	6
OECD Asia Oceania	36	32	42	38	39	48	43	29	34	42	43	-
Non-OECD Asia (excl. Singapore)	152	101	126	72	112	122	195	96	60	93	54	3
Other	10	15	22	23	7	6	53	18	44	73	25	4
Fotal ²	1300	1190	1192	1116	1213	1173	1264	1086	1130	1120	1199	-7
of which Non-OECD	1126	1062	1110	1045	1136	1070	1188	1006	1078	1026	1122	-9
	1120	1002	1110	1045	1150	1070	1100	1000	10/0	1020	1122	
DECD Asia Oceania												
OECD Americas	1	4	-	-	-	-	-	-	-	-	-	
Venezuela	-	-	-	-	-	-	-	-	-	-	-	
Other Central and South America	-	0	-	-	-	-	-	-	-	-	-	
ARA (Belgium Germany Netherlands)	-	0	0	-	0	0	0	0	-	0	-	
Other Europe	-	-	-	-	-	-	-	-	-	-	-	
FSU	4	2	1	1	1	2	1	-	-	-	2	
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-	
Algeria	-	-	-	-	-	-	-	-	-	-	-	
Other Middle East and Africa	7	13	4	13	-	-	3	1	-	-	-	
Singapore	111	91	110	82	92	153	115	108	83	150	85	e
Non-OECD Asia (excl. Singapore)	133	208	227	229	249	182	248	205	143	138	216	-7
Other	5	10	9	11	11	9	5	5	5	11	6	
Fotal ²	262	328	351	336	353	345	371	319	231	299	308	-1
of which Non-OECD	261	324	355	336	353	345	385	359	267	319	308	1
Total OECD Trade ²	1680	1653	1740	1718	1715	1671	1857	1531	1485	1688	1707	-1
of which Non-OECD	1473	1489	1598	1583	1582	1509	1719	1453	1406	1517	1588	-7

1 Based on Monthly Oil Questionnaire data submitted by OECD countries in tonnes. 2 Total figure excludes intra-regional trade.

2019 2020 2021 1021 2021 3021 4021 Dec 21 Jan 22 Feb 2 Feb 2 OECD Americas Venezuela 0 -					RCE1	Y SOUR	RTS B	IMPO	SENE	Table D KERC		ECD J	NAL O	REGIO
Unspectation 0 - <t< th=""><th></th><th>Year Ea Feb 21</th><th>- eb 22</th><th>22 F</th><th>Jan 2</th><th>Dec 21</th><th>4Q21</th><th>3Q21</th><th>2Q21</th><th>1Q21</th><th>2021</th><th>2020</th><th>2019</th><th></th></t<>		Year Ea Feb 21	- eb 22	22 F	Jan 2	Dec 21	4Q21	3Q21	2Q21	1Q21	2021	2020	2019	
Venzulai 0 -<														-
Other Central and South America 7 5 1 3 - - - - - - ARA (Belgium Germany Netherlands) - - 5 4 0 14 - - - - FSU - 0 4 6 6 5 6 7 - - - Saud Arabia 2 6 6 - 4 4 9 0 3 5 8 - - - 1 Algeria - 1 4 9 0 3 5 8 - - - 1 3 0 0 16 2.3 2.7 13 33 2.6 2.1 1 0 0 - - 1.4 - - 1.4 - - 1.4 - - 1.4 - - 1.4 - - 1.4 - - - - 1.4 - - - - - - - - - <													0	
ARA (Bergium Germany Netherlands) - - 5 4 0 14 - - - - Other Europe 0 4 6 6 5 6 7 - - - Saud Arabia 2 6 6 - 4 4 17 20 1 6 Algeria - 1 4 9 0.3 5 8 - - 2 Other Middle East and Africa 10 11 18 6 31 14 22 33 11 11 1 Singapore 3 4 1 - - 4 3 26 21 18 Oher Middle East and Africa 10 9 166 207 175 161 127 122 10 Other - 3 4 1 - - 14 - - 14 - - 14 - - 14 - - 16 0 0 - - 14 <td>2</td> <td>-</td> <td>-</td> <td>-</td> <td></td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td></td> <td>-</td> <td>-</td> <td></td> <td></td>	2	-	-	-		-	-	-	-		-	-		
Other Europe 0 4 6 6 5 6 7 - <t< td=""><td>2</td><td>2</td><td>-</td><td>-</td><td></td><td>-</td><td>-</td><td></td><td></td><td></td><td></td><td>5</td><td>/</td><td></td></t<>	2	2	-	-		-	-					5	/	
FSU - 0 4 - 0 16 28 2 9 Saudi Arabia 2 6 6 - 4 4 17 20 1 6 Other Middle East and Africa 10 11 18 6 31 14 22 33 111 11 Other Middle East and Africa 10 11 18 6 31 14 22 76 46 75 75 52 Non-OECD Asia (excl. Singapore) 16 23 27 13 25 34 33 26 21 18 Other 3 4 1 - - 4 - - 14 - Other 3 4 1 - - - - 14 -	-	-	-	-		-	- 7					-	-	
Saudi Arabia 2 6 6 - 4 4 17 20 1 6 Algeria - 1 4 9 0 3 5 8 - - 7 Algeria 10 11 18 6 31 14 22 33 11 11 11 Singapore 3 4 2 - 2 5 - - 2 33 Non-OECD Asia (excl. Singapore) 16 23 27 13 25 34 33 26 21 18 Other 34 1 - - 4 - - 14 - Other 3 4 1 - 4 0 2 10 0 0 - - 14 0 2 10 0 2 10 11 14 0 2 10 0 2 11 0 0 - - 11 10 10 11 12 13 11	-	_	0	2									0	
Algeria - 1 4 9 0 3 5 8 - - 1 Other Middle East and Africa 10 11 18 6 31 14 22 33 11 11 OECD Asia Oceania 133 100 91 67 98 122 76 66 75 75 95 Other Mon-OECD Asia (excl. Singapore) 16 23 27 13 25 34 33 26 21 18 Other 3 4 1 - -4 - - 14 - Other for 3 4 1 - -4 - - 14 - Other for 41 55 63 31 65 93 115 51 47 7 OECD funce 0 - - 1 - <td></td> <td>_</td> <td></td> <td>2</td> <td></td>		_											2	
Other Middle East and Africa 10 11 18 6 31 14 22 33 11 11 Singapore 3 4 2 2 5 - 2 3 Non-OECD Asia (excl. Singapore) 16 23 27 13 25 34 33 26 21 18 Other 3 4 1 - - 4 - - 14 - Other 3 4 1 - - 14 - - 14 - - 14 - - 14 - - 14 - - 14 - <td></td> <td>- 10</td> <td>0</td> <td>'</td> <td></td>		- 10	0	'										
Singapore 3 4 2 - 2 5 - - 2 3 OECD Asia Oceania 133 100 91 67 98 122 76 46 75 75 75 95 Other 3 4 1 - - 4 - - 14 - Other 3 4 1 - - 4 - - 14 - Other 3 4 1 - - 4 - - 14 - Other 41 55 63 31 63 65 93 115 51 47 1 OECD Europe 2 0 0 - - 1 - </td <td>-</td> <td></td> <td>- 11</td> <td>-</td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td>	-		- 11	-	1									0
DECD Asia Oceania 133 100 91 67 98 122 76 46 75 75 5 Non-DECD Asia (excl. Singapore) 16 23 27 13 25 34 33 26 21 18 Other 3 4 1 - - 4 - - 14 - Total ² 174 159 164 108 166 207 175 161 127 122 10 of which Non-OECD 41 55 63 31 63 65 93 115 51 47 7 OECD Americas 20 13 3 1 2 1 9 4 0 2 Venczuła - - - 1 -	-	-												
Non-OECD Asia (excl. Singapore) 16 23 27 13 25 34 33 26 21 18 Other 3 4 1 - - 4 - - 14 - Other 3 4 1 - - 4 - - 14 - Other 3 4 1 - - 4 0 22 122 122 122 122 122 147 155 151 147 122 147 155 133 1 2 1 9 4 0 2 2 147 155 133 1 2 1 9 4 0 2 2 18 105 10 1 <th1< th=""> 1 1 1 <t< td=""><td>-</td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<></th1<>	-	-												
Other 3 4 1 - - 4 - - 14 - Tetal ² 174 159 164 108 166 207 175 161 127 122 10 of which Non-OECD 41 55 63 31 63 65 93 115 51 47 122 OECD Americas 20 13 3 1 2 1 9 4 0 2 Venczuela - - - - - 1 -		93												
Total ² 174 159 164 108 166 207 175 161 127 122 10 of which Non-OECD 41 55 63 31 63 65 93 115 51 47 17 OECD Europe OECD Americas 20 13 3 1 2 1 9 4 0 2 OHer Central and South America 1 0 -	-													
of which Non-OECD 41 55 63 31 63 65 93 115 51 47 1 OECD Europe 0 - 63 33 33 33 33 33 33 33 33 33 33 33 33 33 33	-													
OECD Americas 20 13 3 1 2 1 9 4 0 2 Venezuela - 11 10 5 5 6 3 - - - 11 13 10 27 80 23 15 6 3 - - - 11 13 10 27 80 22 13 10 27 80		104												
OECD Americas 20 13 3 1 2 1 9 4 0 2 Venezuela - 11 9 5 6 8 6 - - - 11 133 100 21 34 46 21 0 0 - - 11 133 100 21 133 10 23 25 11 11 13 14 14 1 5 50 59 113 110 27 80 22 27	12	12	47	51	5	115	93	65	63	31	63	55	41	of which Non-OECD
OECD Americas 20 13 3 1 2 1 9 4 0 2 Venezuela - 11 9 5 6 8 6 - - - 11 133 100 21 34 46 21 0 0 - - 11 133 100 21 133 10 23 25 11 11 13 14 14 1 5 50 59 113 110 27 80 22 27														OECD Europe
Venezuela -	1	1	2	0		4	9	1	2	1	3	13	20	
Other Central and South America 1 0 0 - - 1 - - - Non-OECD Europe 2 0 0 - - 0 - <	-	-	-	-			-							
Non-OECD Europe 2 0 0 - - 0 - - - 0 - - - - - - - 0 - 11 - - - 11 - 0 - - - 11 0 5 6 8 6 - - - 11 13 14 13 10 13 10 13 10 13 10 14 15 5 15 11 11 12 2 1 30 71 23 25 17 161 133 10 27 80 27 300 24 27 300 24 27 300 24 27 300 <th< td=""><td>-</td><td>-</td><td>-</td><td>-</td><td></td><td>-</td><td>1</td><td>-</td><td>-</td><td>-</td><td>0</td><td>0</td><td>1</td><td></td></th<>	-	-	-	-		-	1	-	-	-	0	0	1	
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Algeria 11 9 5 6 8 6 - - - 11 Other Middle East and Africa 199 155 154 137 136 179 165 177 161 133 10 Singapore 29 10 11 3 4 23 15 6 3 - - 5 0 2 17 39 40 41 1 5 3 - - 0 12 0 11 12 2 1 30 71 23 25 77 Other 2 10 11 12 2 1 30 71 23 25 77 Total ² 520 336 334 278 291 349 416 470 276 307 22 of which Non-OECD 464 297 299 248 273 309 367 425 275 300 22 OECD Americas - - - - - - <		63												
Other Middle East and Africa 199 155 154 137 136 179 165 177 161 133 10 Singapore 29 10 11 3 4 23 15 6 3 - OECD Asia Oceania 36 27 32 32 17 39 40 41 1 5 3 5 Non-OECD Asia Oceania 36 27 32 32 17 39 40 41 1 5 3 - 7 80 22 5 11 12 2 1 30 71 23 25 17 Other 2 10 11 12 2 1 30 71 27 80 22 other 2 10 11 12 2 1 30 71 23 25 77 309 367 425 275 300 26 Other Atal Roceania - - - - - - - -	-						-							
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QECD Asia Oceania 36 27 32 32 17 39 40 41 1 5 53 Non-OECD Asia (excl. Singapore) 73 50 62 17 59 59 113 110 27 80 22 Other 2 10 11 12 2 1 30 71 23 25 1 Total ² 520 336 334 278 291 349 416 470 276 307 27 of which Non-OECD 464 297 299 248 273 309 367 425 275 300 24 OECD Asia Oceania -	-													
Non-OECD Asia (excl. Singapore) 73 50 62 17 59 59 113 110 27 80 22 Other 2 10 11 12 2 1 30 71 23 25 71 Total ² 520 336 334 278 291 349 416 470 276 307 277 of which Non-OECD 464 297 299 248 273 309 367 425 275 300 226 OECD Asia Oceania - <td></td> <td>34</td> <td></td>		34												
Other 2 10 11 12 2 1 30 71 23 25 71 Total ² 520 336 334 278 291 349 416 470 276 307 277 of which Non-OECD 464 297 299 248 273 309 367 425 275 300 24 OECD Asia Oceania -		20												
Total ² 520 336 334 278 291 349 416 470 276 307 277 of which Non-OECD 464 297 299 248 273 309 367 425 275 300 247 OECD Asia Oceania <td></td>														
of which Non-OECD 464 297 299 248 273 309 367 425 275 300 24 OECD Asia Oceania - <td></td> <td>19</td> <td></td>		19												
OECD Asia Oceania OECD Americas -		278												
OECD Americas - <	42	242	300	75	27	425	367	309	273	248	299	297	464	of which Non-OECD
OECD Americas - <														OECD Asia Oceania
Other Central and South America -	-	-	-	-		-	-	-	-	-	-	-	-	OECD Americas
Other Central and South America -	-	-	-	-		-	-	-	-	-	-	-	-	Venezuela
ARA (Belgium Germany Netherlands) -	-	-	-	-		-	-	-	-	-	-	-	-	
Other Europe - <t< td=""><td>-</td><td>-</td><td>-</td><td>-</td><td></td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td></td><td></td></t<>	-	-	-	-		-	-	-	-	-	-	-		
FSU -	-	-	-	-		-	-	-	-	-	-	-		
Saudi Arabia - <t< td=""><td>-</td><td>-</td><td>-</td><td>-</td><td></td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td></td><td></td></t<>	-	-	-	-		-	-	-	-	-	-	-		
Algeria - </td <td>-</td> <td></td> <td>-</td> <td>-</td> <td></td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td></td>	-		-	-		-	-	-	-	-	-	-	-	
Other Middle East and Africa - - 1 3 - <td< td=""><td></td><td>-</td><td>-</td><td>-</td><td></td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td></td></td<>		-	-	-		-	-	-	-	-	-	-	-	
Singapore 21 14 16 6 18 20 19 17 22 33 19 Non-OECD Asia (excl. Singapore) 29 28 33 55 37 15 27 22 17 14 16 Other 26 21 24 36 17 8 37 49 32 34 24 Total ² 76 63 74 100 71 43 83 88 72 81 13 of which Non-OECD 76 63 75 100 71 43 86 96 73 89 13	_	-	-	-			-					-		•
Non-OECD Asia (excl. Singapore) 29 28 33 55 37 15 27 22 17 14 77 Other 26 21 24 36 17 8 37 49 32 34 24 Total ² 76 63 74 100 71 43 83 88 72 81 13 of which Non-OECD 76 63 75 100 71 43 86 96 73 89 13		12					10							
Other 26 21 24 36 17 8 37 49 32 34 24 Total ² 76 63 74 100 71 43 83 88 72 81 13 of which Non-OECD 76 63 75 100 71 43 86 96 73 89 13		72												
Total ² 76 63 74 100 71 43 83 88 72 81 13 of which Non-OECD 76 63 75 100 71 43 86 96 73 89 13		46												
of which Non-OECD 76 63 75 100 71 43 86 96 73 89 13														
		130												
Total OECD Trade ² 770 558 573 486 528 600 674 719 475 510 51	30	130	89	3	7	96	86	43	71	100	75	63	76	of which Non-OECD
	12	512	510	'5	47	719	674	600	528	486	573	558	770	
		384												

Based on Monthly Oil Questionnaire data submitted by OECD countries in tonnes.
 2 Total figure excludes intra-regional trade.

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BECK			DEGIDI				DTC D					
REGIC	JNAL C	ECD		OAL FUE	Is per day)	INIPO	KISB	Y SOUR	CE			
											Year Ea	rlier
	2019	2020	2021	1Q21	2Q21	3Q21	4Q21	Dec 21	Jan 22	Feb 22	Feb 21 o	hang
DECD Americas												
Venezuela	7	-	-	-	-	-	-	-	-	-	-	
Other Central and South America	50	52	34	29	25	39	44	61	13	60	46	1
ARA (Belgium Germany Netherlands)	6	12	6	3	2	9	9	15	-	17	-	
Other Europe	8	21	10	8	10	4	18	-	-	67	9	5
FSU	29	43	34	62	36	19	18	12	50	60	49	1
Saudi Arabia	2	2	0	-	0	-	2	-	-	0	-	
Algeria	8	2	7	8	4	3	13	27	-	-	-	
Other Middle East and Africa	5	10	8	6	11	15	0	0	-	1	-	
Singapore	1	1	0	-		2	-	-	-		-	
OECD Asia Oceania			0		-	1		-		-	-	
Non-OECD Asia (excl. Singapore)	0	-	2		8	0		-		-	-	
Other	-	-	-	-	-	-	-	-	-	-	-	
Γotal ²	116	143	102	116	96	91	104	115	62	206	103	10
of which Non-OECD	102	110	86	105	84	78	77	100	62	121	94	2
ECD Europe												
OECD Americas	7	12	24	28	32	14	20	9	18	4	17	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-	
Other Central and South America	5	6	4	5	1	10	1	2	2	-	14	
Non-OECD Europe	21	13	12	12	12	12	11	15	16	5	12	
FSU	144	141	247	241	150	315	279	233	152	290	196	9
Saudi Arabia	-	2	-	-	-	-	-	-	-	-	-	
Algeria	0	2	2	3	-	2	3	-	-	-	-	
Other Middle East and Africa	19	13	14	14	10	18	13	24	13	11	10	
Singapore	1	3	3	2	7	2	2	0	-	-	-	
OECD Asia Oceania	14	4	3	0	2	5	5	-	-	-	-	
Non-OECD Asia (excl. Singapore)	3	-	-	-	-	-	-	-	-	-	-	
Other	8	93	62	48	94	54	51	177	76	36	51	-1
Total ²	222	288	370	354	308	432	384	461	276	348	300	4
f which Non-OECD	202	279	350	341	280	417	360	452	258	346	310	3
DECD Asia Oceania												
OECD Americas	1	-	-	-	-	-	-	-	-	-	-	
Venezuela	-	-	-	-	-	-	-	-	-	-	-	
Other Central and South America	-	0	-	-	-	-	-	-	-	-	-	
ARA (Belgium Germany Netherlands)	-	-	-	-	-	-	-	-	-	-	-	
Other Europe	-	-	-	-	-	-	-	-	-	-	-	
FSU	6	5	0	1	-	-	-	-	-	-	-	
Saudi Arabia	1	1	13	-	14	13	25	28	8	9	-	
Algeria	-	-	-	-	-	-	-	-	-	-	-	
Other Middle East and Africa	27	38	30	32	27	31	30	43	-	-	23	
Singapore	25	18	29	27	44	22	23	13	63	19	8	
Non-OECD Asia (excl. Singapore)	40	26	47	49	30	56	51	64	63	126	79	4
Other	1	-	-	-	-	-	-	-	-	-	-	
Fotal ²	101	88	119	109	116	121	129	146	135	153	111	4
of which Non-OECD	100	88	119	109	116	121	129	146	135	153	111	2
							. 20	140	100			
otal OECD Trade ²	439	519	590	579	520	645	616	722	473	707	514	19
	439											
of which Non-OECD	404	477	554	555	480	615	565	698	456	621	515	10

1 Based on Monthly Oil Questionnaire data submitted by OECD countries in tonnes.

2 Total figure excludes intra-regional trade.

					Tabl	e 13							
				E COST			CRUD					s	
			UNUD	2 0001	(\$/t				NOD	0011		0	
	2019	2020	2021	2Q21	3Q21	4Q21	1Q22	Nov 21	Dec 21	Jan 22	Feb 22	Mar 22	Apr 22
CRUDE OIL PRICES													
IEA CIF Average Import	1												
IEA Americas	56.93	37.31	64.78	63.76	67.32	73.13		75.73	68.22	74.95	83.45		
IEA Europe	64.25	42.91	69.96	67.23	72.11	78.43		80.33	74.41	84.08	95.12		
IEA Asia Oceania	66.38	46.28	70.41	67.63	74.07	80.92		82.51	81.65	81.59	89.56		
IEA Total	62.75	42.19	68.55	66.29	71.18	77.54		79.55	74.52	80.90	90.38		
FOB Spot													
North Sea Dated	64.12	41.76	70.82	68.84	73.42	79.67	102.12	81.37	74.01	87.10	98.01	118.75	104.25
Brent (Asia) Mth 1	64.86	44.86	71.49	69.50	74.09	80.47	101.21	82.58	74.82	86.18	97.89	117.53	106.07
WTI (Cushing) Mth 1	57.03	39.25	68.10	66.19	70.54	77.33	95.18	79.18	71.53	83.13	91.74	108.52	101.77
Urals (Mediterranean)	64.31	41.93	69.47	67.48	71.32	78.39	91.49	80.08	73.07	86.76	94.94	92.59	72.44
Dubai (1st month)	63.49	42.36	69.35	67.01	71.60	78.23	96.06	80.21	73.25	83.34	92.48	110.49	102.91
Tapis (Dated)	69.16	43.28	72.80	69.81	75.30	83.38	108.06	85.09	78.88	91.73	104.62	125.65	111.36
PRODUCT PRICES													
Rotterdam, Barges FOB	•												
Premium Unl 10 ppm	71.35	44.65	80.25	78.57	85.64	90.71	110.45	93.21	82.88	94.85	106.55	127.41	125.68
Naphtha	56.27	39.64	71.14	66.69	74.61	82.00	99.54	82.33	78.27	86.87		113.24	101.44
Jet/Kerosene	79.24	44.79	76.50	72.52	78.87	90.15	121.79	90.46	85.18	100.65		150.44	153.17
ULSD 10ppm	79.45	49.32	78.52	74.64	80.81	92.06	125.05	92.83	86.38	101.18		156.47	151.46
Gasoil 0.1 %	77.73	48.10	77.12	73.43	79.41	90.20	121.77	90.67	84.69	99.18	110.26	151.41	145.48
LSFO 1%	62.21	42.78	70.18	66.88	72.12	78.63	96.33	78.61	74.57	83.98	91.90	110.94	98.73
HSFO 3.5%	50.31	34.43	62.07	60.08	63.95	68.68	85.42	67.40	64.43	75.42	81.00	97.98	91.93
Mediterranean, FOB Car	rgoes												
Premium Unl 10 ppm	71.31	45.59	80.69	77.94	86.49	91.08	111.91	91.68	84.94	96.68	108.01	128.55	126.02
Naphtha	54.43	37.81	69.60	65.19	73.44	80.04	97.03	80.76	75.50	84.89	93.90	110.29	97.78
Jet Aviation Fuel	77.76	43.28	75.26	71.22	77.96	88.66	119.87	89.29	83.07	99.21	108.03	148.12	150.30
ULSD 10ppm	79.05	48.76	78.00	74.07	80.64	91.16	122.64	91.96	85.03	99.81	110.31	153.21	147.98
Gasoil 0.1 %	77.70	47.60	76.89	72.94	79.60	89.87	119.44	90.64	83.90	99.18	109.08	146.07	142.97
LSFO 1%	63.90	44.06	71.27	67.84	73.10	80.24	99.17	80.30	76.33	86.30	93.09	115.65	105.01
HSFO 3.5%	52.17	34.36	60.50	58.23	62.69	67.23	83.38	66.01	62.67	73.78	78.87	95.64	89.21
US Gulf, FOB Pipeline													
Super Unleaded	79.24	50.64	91.17	90.78	97.57	99.76	121.45	100.72	92.61	104.58	116.46	140.25	142.72
Unleaded	72.28	46.02	86.46	85.70	91.72	95.12	116.65	95.45	88.83	100.62	112.28	134.21	132.98
Jet/Kerosene	78.81	46.20	77.91	73.74	79.86	92.09	121.50	92.43	87.63	102.12	112.50	145.78	156.86
ULSD 10 ppm	79.09	50.17	84.69	82.05	87.33	97.51	126.65	97.70	91.78	106.71	118.06	151.09	160.12
No. 6 3% ²	52.57	34.63	59.90	57.77	62.33	67.41	83.38	66.25	63.04	74.91	80.13	93.44	89.41
Singapore, FOB Cargoe	S												
Premium Unleaded	72.55	46.65	80.49	76.86	83.45	93.71	113.98	95.01	87.92	98.04	110.72	131.07	126.73
Naphtha	57.15	40.77	70.99	66.41	73.93	82.09	97.77	84.21	77.82	84.56	95.75	111.42	97.75
Jet/Kerosene	77.26	44.83	75.26	71.52	77.10	88.47	113.09	89.09	83.47	95.78	106.17	134.32	134.35
Gasoil 0.05%	77.23	48.43	76.12	72.28	77.16	89.64	116.43	90.84	84.94	97.84	109.91	138.51	139.18
HSFO 180 CST	58.62	39.32	64.53	61.28	68.34	71.42	88.05	71.15	65.86	76.17	82.63	103.13	110.91
HSFO 380 CST 4%	57.57	38.25	63.22	60.20	66.13	70.14	85.45	69.87	64.79	74.15	81.08	99.20	104.14

1 IEA CIF Average Import price for February is an estimate.
IEA Americas includes United States and Canada.
IEA Europe includes all countries in OECD Europe except Estonia, Hungary and Slovenia.
IEA Asia Oceania includes Australia, New Zealand, Korea and Japan.
2 Waterborne
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						able 14							
	M	ONTHL	Y AVER	AGE END	-USER	PRICES	FO	R PETRO	DLEUM	PROD	UCTS		
						•	-						
			NATIONAI	CURRENCY	*					US DO	OLLARS		
	Total	% chan	ge from	Ex-Tax	% char	ige from		Total	% chan	ge from	Ex-Tax	% char	nge from
	Price	Mar-22	Apr-21	Price	Mar-22	Apr-21		Price	Mar-22	Apr-21	Price	Mar-22	Apr-21
GASOLINE ¹ (pe	r litre)												
France	1.805	- 9.2	19.1	0.813	-15.8	42.1		1.950	-11.0	7.5	0.878	-17.4	28.3
Germany	2.037	- 5.2	33.9	1.057	-8.2	69.7		2.200	-7.1	20.9	1.142	-10.0	53.2
Italy	1.774	- 12.9	12.7	0.976	-2.7	73.7		1.916	-14.6	1.8	1.054	-4.6	56.8
Spain	1.673	- 6.5	26.7	0.910	-9.5	47.2		1.807	-8.4	14.4	0.983	-11.4	33.0
United Kingdom	1.619	1.1	29.0	0.819	6.6	75.8		2.092	-0.8	20.4	1.059	4.6	64.1
Japan	173.6	- 0.6	15.4	101.2	-0.9	26.3		1.374	-6.7	-0.3	0.801	-7.0	9.1
Canada	1.758	- 2.7	35.2	1.247	-3.3	49.7		1.392	-2.4	33.9	0.988	-3.0	48.2
United States	1.086	- 2.7	43.8	0.955	-3.0	52.3		1.086	-2.7	43.8	0.955	-3.0	52.3
AUTOMOTIVE D	IESEL FOR		MMERCIA	L USE (per lit	re)								
France	1.862	- 8.2	35.6	0.943	-12.8	76.3		2.011	-10.1	22.5	1.019	-14.6	59.2
Germany	2.031	- 6.6	55.2	1.237	-8.8	96.3		2.194	-8.4	40.1	1.336	-10.7	77.3
Italy	1.771	- 11.1	23.3	1.085	0.6	93.8		1.913	-12.9	11.4	1.172	-1.4	75.0
Spain	1.702	- 3.2	44.1	1.028	-4.3	72.2		1.838	-5.1	30.1	1.110	-6.2	55.5
United Kingdom	1.762	3.3	36.0	0.938	9.8	87.6		2.277	1.4	26.9	1.212	7.8	75.1
Japan	153.3	- 0.6	17.4	107.4	-0.8	23.9		1.213	-6.8	1.4	0.850	-6.9	7.0
Canada	1.964	- 0.3	58.9	1.482	-0.3	80.7		1.555	-0.1	57.3	1.174	-0.1	78.9
United States	1.353	0.3	63.6	1.202	0.3	77.3		1.353	0.3	63.6	1.202	0.3	77.3
DOMESTIC HEA		per litre)											
France	1.502	- 7.2	78.0	1.095	-8.2	100.3		1.622	-9.1	60.8	1.183	-10.0	80.9
Germany	1.376	- 13.9	100.5	1.095	-14.5	112.5		1.486	-15.6	81.0	1.183	-16.2	91.8
Italy	1.763	- 1.6	42.4	1.042	-2.3	70.4		1.904	-3.6	28.6	1.125	-4.2	53.9
Spain	1.335	0.8	99.2	1.006	0.8	120.2		1.442	-1.2	79.9	1.087	-1.2	98.8
United Kingdom	1.060	- 8.1	97.7	0.898	-9.0	124.9		1.370	-9.9	84.6	1.161	-10.8	110.0
Japan ²	114.3	- 0.3	27.8	101.1	-0.3	28.8		0.905	-6.5	10.4	0.801	-6.5	11.2
Canada	1.940	4.7	69.5	1.730	4.7	74.0		1.536	5.0	67.8	1.370	5.0	72.3
United States	-	-	-	-	-	-		-	-	-	-	-	-
LOW SULPHUR	FUEL OIL	FOR INDU	JSTRY ³ (p	er kg)									
France	0.830	- 5.4	47.2	0.690	-6.5	62.7		0.896	-7.3	32.9	0.745	-8.4	46.9
Germany	-	-	-	-	-	-		-	-	-	-	-	-
Italy	0.785	- 5.0	56.4	0.753	-5.2	60.1		0.848	-6.9	41.2	0.814	-7.1	44.6
Spain	0.664	4.5	57.0	0.647	4.6	59.4		0.718	2.4	41.7	0.699	2.5	43.9
United Kingdom	-	· -	-	-	-	-		-	-	-	-		-
Japan	-	. <u>-</u>	-	-	-	-		-	-	-	-	-	-
Canada	-	. <u>-</u>	-	-	-	-		-	-	-	-	-	-
United States	-	. <u>-</u>	-	-	-	-		-	-	-	-	-	-

Inleaded premium (95 RON) for France, Germany, Italy, Spain, UK; regular unleaded for Canada, Japan and the United States. Kerosene for Japan.
 VAT excluded from prices for low sulphur fuel oil when refunded to industry.

* Prices for France, Germany, Italy and Spain are in Euros; UK in British Pounds, Japan in Yen, Canada in Canadian Dollars.

Table 15												
	IEA	/KBC (Global	Indica	tor Re	efining Marg	jins ¹					
				(\$/bt	ol)							
		Monthly	Average			Change		Averag	e for week	endina:		
	Jan 22	Feb 22	Mar 22	Apr 22		Apr-Mar	08 Apr	15 Apr	22 Apr	29 Apr	06 May	
NW Europe												
Brent (Cracking)	4.29	3.28	11.84	22.33	♠	10.50	18.48	19.51	23.39	28.27	25.96	
Urals (Cracking)	4.14	7.04	38.78	55.01	•	16.23	51.63	52.69	56.13	60.54	58.02	
Brent (Hydroskimming)	1.29	-0.37	6.26	14.30	1	8.05	11.48	12.01	15.06	18.81	15.65	
Urals (Hydroskimming)	-0.84	0.76	29.76	45.32	1	15.56	43.24	43.40	45.76	49.55	47.06	
Mediterranean												
Es Sider (Cracking)	5.66	4.21	15.62	24.45	↑	8.83	20.02	21.18	25.83	30.81	27.46	
Urals (Cracking)	4.21	5.16	38.66	55.11	↑	16.44	50.80	52.29	56.52	61.59	58.13	
Es Sider (Hydroskimming)	2.95	0.79	9.46	16.61	♠	7.15	13.77	13.84	17.38	21.25	17.84	
Urals (Hydroskimming)	-2.05	-2.40	26.15	41.65	↑	15.50	39.35	39.22	42.12	46.20	43.35	
US Gulf Coast												
Mars (Cracking)	7.84	8.11	11.76	16.98	↑	5.22	15.95	14.67	15.39	20.87	24.77	
50/50 HLS/LLS (Coking)	15.17	17.29	27.01	36.25	↑	9.24	32.11	32.47	36.40	43.74	48.46	
50/50 Maya/Mars (Coking)	11.43	12.33	18.13	25.71	↑	7.58	22.23	21.93	25.32	32.83	36.79	
ASCI (Coking)	13.01	14.73	22.13	30.24	↑	8.11	27.56	26.71	29.25	36.62	41.08	
US Midwest												
30/70 WCS/Bakken (Cracking)	8.21	9.14	16.10	24.20	↑	8.10	19.53	20.92	25.20	31.15	33.90	
Bakken (Cracking)	9.29	11.05	20.22	30.39	↑	10.17	24.71	26.84	31.73	38.42	41.79	
WTI (Coking)	10.74	11.89	22.74	34.23	↑	11.49	28.74	30.90	35.19	42.23	46.32	
30/70 WCS/Bakken (Coking)	10.49	12.22	21.75	31.79	↑	10.04	26.02	28.08	33.13	40.05	43.62	
Singapore												
Dubai (Hydroskimming)	-1.31	-1.47	2.11	11.86	↑	9.74	10.81	11.67	11.54	13.58	16.20	
Tapis (Hydroskimming)	1.02	-0.76	2.82	15.45	↑	12.62	13.55	14.00	18.15	17.94	18.01	
Dubai (Hydrocracking)	8.56	10.35	16.87	23.58	↑	6.72	21.41	23.46	24.37	25.92	31.03	
Tapis (Hydrocracking)	0.95	-1.02	3.12	17.80	↑	14.68	15.21	15.72	20.92	21.37	22.01	

1 Global Indicator Refining Margins are calculated for various complexity configurations, each optimised for processing the specific crude(s) in a specific refining centre. Margins include energy cost, but exclude other variable costs, depreciation and amortisation. Consequently, reported margins should be taken as an indication, or proxy, of changes in profitability for a given refining centre. No attempt is made to model or otherwise comment upon the relative economics of specific refineries running individual crude slates and producing custom product sales, nor are these calculations intended to infer the marginal values of crude for pricing purposes.

Table 16
REFINED PRODUCT YIELDS BASED ON TOTAL INPUT (%) ¹

	Dec-21	Jan-22	Feb-22	Feb-21	Feb 22 vs Previous Month	Feb 22 vs Previous Year	Feb 22 vs 5 Year Average	5 Year Average
OECD Americas								
Naphtha	1.1	1.1	1.1	1.1	0.0	-0.1	-0.3	1.4
Motor gasoline	48.0	46.8	45.7	46.1	-1.1	-0.5	-0.6	46.3
Jet/kerosene	8.1	8.5	8.3	6.6	-0.2	1.7	-0.4	8.7
Gasoil/diesel oil	28.0	27.9	28.3	28.0	0.4	0.3	0.4	27.9
Residual fuel oil	2.6	3.2	2.9	3.5	-0.3	-0.6	-0.4	3.3
Petroleum coke	4.3	4.2	4.2	4.2	0.1	0.1	-0.3	4.5
Other products	11.2	11.6	11.7	12.3	0.1	-0.6	0.5	11.3
OECD Europe								
Naphtha	8.5	8.5	8.9	10.1	0.5	-1.2	0.1	8.8
Motor gasoline	21.2	21.3	21.4	19.4	0.1	2.0	1.2	20.2
Jet/kerosene	6.5	7.4	7.7	5.3	0.3	2.4	-0.1	7.8
Gasoil/diesel oil	41.4	39.9	39.4	41.0	-0.5	-1.7	-0.6	40.0
Residual fuel oil	8.8	9.3	8.6	9.1	-0.7	-0.6	-1.5	10.1
Petroleum coke	1.6	1.7	1.7	1.6	0.1	0.1	0.3	1.4
Other products	15.0	14.5	15.2	16.1	0.7	-0.9	1.0	14.1
OECD Asia Oceania								
Naphtha	15.9	15.8	15.7	16.4	-0.1	-0.7	-0.1	15.8
Motor gasoline	22.9	21.4	21.4	22.2	0.0	-0.8	0.1	21.3
Jet/kerosene	13.5	14.3	13.9	13.5	-0.4	0.4	-1.8	15.8
Gasoil/diesel oil	30.1	29.6	30.1	30.2	0.4	-0.1	0.9	29.2
Residual fuel oil	8.3	8.4	9.0	7.5	0.5	1.5	1.5	7.5
Petroleum coke	0.5	0.4	0.5	0.4	0.0	0.1	0.1	0.4
Other products	12.2	12.2	12.3	12.6	0.0	-0.4	0.1	12.2
OECD Total								
Naphtha	6.0	6.1	6.2	7.0	0.1	-0.8	-0.4	6.6
Motor gasoline	35.1	34.1	33.6	32.8	-0.6	0.8	0.5	33.0
Jet/kerosene	8.6	9.2	9.2	7.5	-0.1	1.6	-0.6	9.8
Gasoil/diesel oil	32.6	32.0	32.1	32.7	0.1	-0.5	0.1	32.1
Residual fuel oil	5.5	6.1	5.8	6.1	-0.3	-0.3	-0.5	6.3
Petroleum coke	2.7	2.7	2.8	2.6	0.1	0.2	0.0	2.7
Other products	12.6	12.6	12.9	13.6	0.3	-0.7	0.6	12.4

1 Due to processing gains and losses, yields in % will not always add up to 100%

			Tab	le 17					
		WORL	D BIOFUE	LS PRODI	JCTION				
	WORLD BIOFUELS PRODUCTION (thousand barrels per day)								
	2019	2020	2021	3Q21	4Q21	1Q22	Feb 22	Mar 22	Apr 2
ETHANOL									
OECD Americas ¹	1063	934	1010	993	1092	1045	1046	1016	101
United States	1029	906	979	963	1061	1010	1011	980	98
Other	34	28	30	30	30	35			
OECD Europe ²	97	93	103	118	117	113	122	103	10
France	21	17	18	25	22	24	29	19	1
Germany	12	11	12	15	15	19	23	12	1
Spain	9	8	10	10	10	7	5	11	1
United Kingdom	5	5	9	9	16	14	22	7	
Other	50	52	54	59	54	49			
OECD Asia Oceania ³	4	4	4	3	4	4	4	4	
Australia	4	4	4	3	4	4	4	4	
Other	0	0	0	0	0	0			
Total OECD Ethanol	1165	1031	1117	1114	1213	1163	1172	1123	112
Total Non-OECD Ethanol	809	735	703	1130	515	312	303	305	60
Brazil	621	560	515	942	327	100	91	93	39
China	67	69	76	76	76	79			
Argentina	19	15	18	18	18	21			
Other	102	91	94	94	94	112	212	212	21
TOTAL ETHANOL	1974	1766	1820	2244	1728	1475	1475	1428	172
BIODIESEL									
OECD Americas ¹	151	159	168	163	197	186	230	239	23
United States	145	153	160	156	190	182	229	229	22
Other	7	6	7	7	7	4			
OECD Europe ²	295	281	313	328	314	295	291	335	33
France	43	41	43	48	43	49	57	47	4
Germany	69	61	66	74	66	58	58	68	6
Italy	18	28	30	31	31	24			
Spain	42	30	39	40	38	33	30	42	4
Other	123	121	136	136	136	131	127	144	14
OECD Asia Oceania ³	15	12	12	15	8	11	11	12	1
Australia	0	0	0	0	0	0	0	0	
Other	15	12	12	15	8	11			
Total OECD Biodiesel	461	452	493	506	520	492	532	587	58
Total Non-OECD Biodiesel	405	411	439	439	439	464	464	464	
Brazil	405 102	411	439 116	439 117	439 114	464 101	464 110	464 101	46 10
Brazii Argentina*	42	27	36	36	36	42	110	101	i (
Other	42 261	274	287	287	289	42 321			
TOTAL BIODIESEL	866	863	932	945	959	955	996	1050	105
	0000	0000	0750	0400	0007	0.400	0474	0.470	077
GLOBAL BIOFUELS	2839	2630	2752	3190	2687	2430	2471	2478	277

* monthly data not available.

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