

Oil Market Report

19 January 2022

- While the number of Omicron cases is surging worldwide, oil demand defied expectations in 4Q21, rising by 1.1 mb/d to 99 mb/d. In 1Q22, demand is set for a seasonal decline, exacerbated by more teleworking and less air travel. We have raised our global demand estimates by 200 kb/d for 2021 and 2022 resulting in growth of 5.5 mb/d and 3.3 mb/d, respectively due to softer Covid restrictions.
- World oil supply in 2022 has the potential for a Saudi-driven gain of 6.2 mb/d if OPEC+ fully unwinds its cuts. Oil output from OPEC+ could rise this year by 4.4 mb/d, resulting in reduced effective spare capacity in 2H22 of 2.6 mb/d, held primarily by Saudi Arabia and the United Arab Emirates. Non-OPEC+ growth of 1.8 mb/d in 2022 will be led by the United States.
- The global refining industry ended 2021 on a high note, with both runs and margins improving. Refinery throughputs averaged 79.8 mb/d in 4Q21, up 4.6 mb/d on a year ago. In 2021, global refining capacity fell for the first time in 30 years, by 730 kb/d, as new capacity was outweight by closures. In 2022, net additions are expected to amount to 1.2 mb/d, with runs forecast to gain 3.7 mb/d.
- OECD total industry stocks declined by 6.1 mb in November, as rising crude and gasoline stocks
 were more than offset by draws in other products. At 2 756 mb, stocks were down 354 mb on a year
 ago and at their lowest level in seven years. Preliminary data for December show OECD industry
 stocks falling by another 45 mb while volumes of oil on the water rose.
- Crude prices struggled under demand uncertainties in December before a vigorous post-holiday rebound. North Sea Dated rose from an average \$74.01/bbl last month to \$87.30/bbl on 18 January, its highest level since 2014. ICE Brent backwardation doubled, reflecting tight oil stocks.



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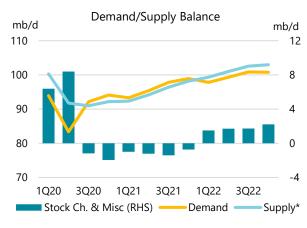
Oil Market Report Market Overview

A tighter balance

Upward revisions to our demand estimates and a slightly lower outlook for world oil supply have tightened our balances for 2022, although they still show a 1Q22 surplus. Robust demand,

unscheduled supply outages and strong stock draws in December pushed benchmark oil prices to seven-year highs. At the time of writing, Brent was trading at around \$87/bbl and WTI at \$85/bbl, up nearly \$20/bbl from December lows.

Two years after first shaking markets, Covid-19 is once again causing record infections. But this time around, the surge is having a more muted impact on oil use. Indeed, mobility indicators remain robust and oil demand has been stronger than expected in recent



* Assumes OPEC+ unwinds cuts. Iran remains under sanctions.

months. As a result, we have revised up our 2021-22 demand estimates by 200 kb/d. World oil demand is now seen rising by 5.5 mb/d in 2021 and by 3.3 mb/d in 2022, returning to its pre-Covid levels of 99.7 mb/d. In 1Q22, demand is set for a seasonal decline, exacerbated by increased teleworking and reduced air travel.

As for supply, disruptions and production shortfalls by some OPEC+ members are tempering growth expectations for 2022. In December, world oil supply rose by a modest 130 kb/d to 98.6 mb/d, as outages in Libya and Ecuador and a smaller than scheduled increase from OPEC+ wiped out much of the expected growth. Producers taking part in the output deal delivered gains of 250 kb/d, well below the allocated amount, and were 790 kb/d lower than the group's target. This shortfall was mostly due to under-production in Nigeria, Angola and Malaysia, all faced with technical and operational issues. Russia pumped below its quota for the first time since record cuts were enforced.

Even so, world oil supply is forecast to grow sharply this year, with the United States, Canada and Brazil set to pump at their highest ever annual levels. US oil output is forecast to rise by 1 mb/d on average, to 17.7 mb/d, as operators respond to higher prices by putting more rigs to work. Additionally, Ecuador, Libya and Nigeria are already ramping back up. Finally, Saudi Arabia and Russia could set records if remaining OPEC+ cuts are fully unwound. In this case, global supply would soar by 6.2 mb/d on average in 2022 compared with a 1.5 mb/d rise in 2021.

While the steady rise in supply could see a significant surplus materialise in 1Q22 and going forward, available data suggest that 2022 is starting off with global oil inventories well below pre -pandemic levels. A growing discrepancy between observed and calculated stock changes suggests demand could be higher or supply lower than reported or assumed. Moreover, higher output would also result in lower OPEC+ spare capacity. By the second half of the year, effective spare capacity (excluding Iranian crude shut in by sanctions) could shrink from around 5 mb/d currently to below 3 mb/d – most of it held by Saudi Arabia and the United Arab Emirates. If demand continues to grow strongly or supply disappoints, the low level of stocks and shrinking spare capacity mean that oil markets could be in for another volatile year in 2022.

Demand

Overview

The number of Covid cases is exploding worldwide but measures taken by governments to contain the virus are less severe than during earlier waves and their impact on economic activity and oil demand remain relatively subdued. As a result, global demand defied expectations in 4Q21, rising by 1.1 mb/d to 99 mb/d, an upward revision of 345 kb/d versus our previous *Report*. Our demand estimates have also been raised by 200 kb/d for both 2021 and 2022, growing by 5.5 mb/d and 3.3 mb/d, respectively. Uncertainty surrounding demand forecasting is increasing with successive Covid waves, virus mutations, supply chain disruptions and the lack of reliability of some demand data.

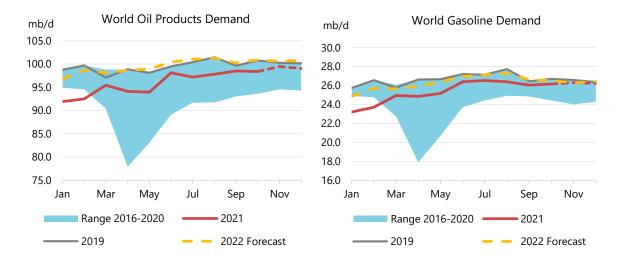
Past waves of Covid had a significant impact on mobility and oil demand through the restrictions put in place by governments to avoid a collapse of their healthcare systems, but the Omicron virus, although more transmissible than previous variants, appears to be far less dangerous. The main impact of Omicron on economic activity appears to be the temporary removal, and mandatory quarantining, of staff from the workforce that have been infected or have come into contact with someone who has.

This could temporarily increase difficulties currently experienced by manufacturers (transportation bottlenecks, semiconductor shortages), in particular if China continues to pursue a zero-Covid policy resulting in large disruptions to the supply chain. After a difficult 1Q22, supply bottlenecks are likely to diminish through the end of the year. Given the muted impact of the recent Covid wave, our GDP assumptions have only been revised slightly lower in the forecast, from an average of 4.6% for 2022 to 4.5% for countries we cover. Uncertainties remain regarding China's overall economic performance given the impact of restrictions linked to the Winter Olympics as well as the country's efforts to revive infrastructure investment after the 2021 real-estate debacle.

Fuel switching from natural gas to oil in power generation remains a source of exceptional demand in Europe and China and we expect this to continue through 1Q22. Complete October data for Europe indicates about 100 kb/d of additional oil demand, compared with a typical year. Widespread use of small-scale backup generators has likely contributed at least as much to the strength of October and November gasoil demand in China. In contrast, countries like India and Brazil saw problems in coal and hydroelectric power generation resolved in 4Q21, resulting in little additional oil consumption.

Heading into 2022, a retrospective view shows the difficulty over the past two years of reliably analysing and forecasting supply and demand. On the one hand, complications have arisen from the consistency of regular data sources in estimating the most recent levels of demand and stocks. This is particularly the case where apparent demand calculations are concerned. As well, the rapidly shifting context of the pandemic has made use of high frequency indicators imperative, but finding relevant correlations to historical demand numbers has suffered from a limited number of data points. Generating forecasts has required strong assumptions beyond the usual GDP and price inputs to account for lockdowns, travel restrictions, working from home, among other reasons that at times poorly captured outcomes. Lessons learned will improve the work in 2022 and allow us to better understand our market.

Our oil price assumption (based on the forward curve) has been revised up. Prices used in this forecast are roughly 12% higher for 2022 than in last month's *Report*. Brent prices average \$70.60/bbl in 2021 and \$76/bbl in 2022.



World oil demand is projected to decline by 1.1 mb/d quarter-on-quarter (q-o-q) in 1Q22, following the usual seasonality and with surging new Covid cases. This represents a 55 kb/d downward revision from last month's *Report*. In contrast, demand has been revised up by 245 kb/d on average in the subsequent three quarters, as Covid restrictions will remain limited if a large part of the population achieves immunity from infection or vaccination. For 2022 as a whole, our demand forecast reaches pre-Covid levels of 99.7 mb/d.

| | Global Demand by Product | | | | | | | | | | | |
|---------------------|--------------------------|--------|-------------------|----------|------------|--------|-----------|-------|--|--|--|--|
| | | | (thousand barrels | per day) | | | | | | | | |
| | | | Demand | | Annual Chg | (kb/d) | Annual Ch | g (%) | | | | |
| | 2019 | 2020 | 2021 | 2022 | 2021 | 2022 | 2021 | 2022 | | | | |
| LPG & Ethane | 12 648 | 12 697 | 13 321 | 13 644 | 624 | 322 | 4.9 | 2.4 | | | | |
| Naphtha | 6 306 | 6 322 | 6 858 | 7 052 | 536 | 194 | 8.5 | 2.8 | | | | |
| Motor Gasoline | 26 636 | 23 528 | 25 513 | 26 327 | 1 985 | 814 | 8.4 | 3.2 | | | | |
| Jet Fuel & Kerosene | 7 926 | 4 633 | 5 163 | 6 133 | 530 | 971 | 11.4 | 18.8 | | | | |
| Gas/Diesel Oil | 28 229 | 26 405 | 27 569 | 28 153 | 1 164 | 584 | 4.4 | 2.1 | | | | |
| Residual Fuel Oil | 6 145 | 5 697 | 6 048 | 6 311 | 351 | 263 | 6.2 | 4.3 | | | | |
| Other Products | 11 660 | 11 617 | 11 909 | 12 085 | 291 | 177 | 2.5 | 1.5 | | | | |
| Total Products | 99 549 | 90 901 | 96 381 | 99 705 | 5 480 | 3 325 | 6.0 | 3.4 | | | | |

There remain plenty of unknowns, but the known characteristics of the Omicron variant could actually support a faster rebound in oil demand in the second half of 2022. At the current speed of transmission, a large part of the population will likely have gained immunity by infection or vaccination by the end of the first quarter. As a result, restrictions to mobility could be minimal in the second half of the year, supporting a faster recovery in transportation demand. Of course those countries maintaining a zero-Covid policy may not benefit from this "positive" effect of the new variant.

| | Global Demand by Region | | | | | | | | | | | |
|--------------|-------------------------|--------|------------------|----------|------------|--------|------------|-------|--|--|--|--|
| | | (| thousand barrels | per day) | | | | | | | | |
| | | | Demand | | Annual Chg | (kb/d) | Annual Cho | ı (%) | | | | |
| | 2019 | 2020 | 2021 | 2022 | 2021 | 2022 | 2021 | 2022 | | | | |
| Africa | 4 250 | 3 815 | 4 007 | 4 104 | 192 | 97 | 5.0 | 2.4 | | | | |
| Americas | 31 767 | 28 053 | 30 118 | 31 048 | 2 066 | 930 | 7.4 | 3.1 | | | | |
| Asia/Pacific | 35 472 | 33 627 | 35 696 | 37 163 | 2 069 | 1 467 | 6.2 | 4.1 | | | | |
| Europe | 15 093 | 13 176 | 13 794 | 14 363 | 618 | 569 | 4.7 | 4.1 | | | | |
| FSU | 4 723 | 4 501 | 4 783 | 4 926 | 282 | 143 | 6.3 | 3.0 | | | | |
| Middle East | 8 244 | 7 728 | 7 982 | 8 100 | 254 | 118 | 3.3 | 1.5 | | | | |
| World | 99 549 | 90 901 | 96 381 | 99 705 | 5 480 | 3 325 | 6.0 | 3.4 | | | | |
| OECD | 47 720 | 42 018 | 44 548 | 46 174 | 2 530 | 1 626 | 6.0 | 3.7 | | | | |
| Non-OECD | 51 829 | 48 883 | 51 832 | 53 531 | 2 950 | 1 698 | 6.0 | 3.3 | | | | |

OECD

Total OECD oil demand for October tumbled by 540 kb/d month-on-month (m-o-m), in contrast to the seasonal trend of a modest increase. Use of LPG/ethane by petrochemical producers (-300 kb/d) and reduced gasoil consumption (-260 kb/d), especially in the US, accounted for the biggest declines. Naphtha demand also fell (-140 kb/d), mainly due to petrochemical outages in Korea.

Based on provisional indications, we estimate November deliveries rebounded by 620 kb/d m-o-m. The stronger growth is driven by higher LPG demand (+690 kb/d) as US petrochemical producers returned to normal operations after maintenance and rising fuel requirements (heating oil, LPG) with the onset of winter in key markets.

Average 4Q21 demand is expected to have increased both quarterly (+430 kb/d) and yearly (+3.3 mb/d), to a total of 46.1 mb/d. Yet it remains 1.8 mb/d lower than pre-pandemic 4Q19 levels, with jet/kerosene (-1.1 mb/d), gasoline (-530 kb/d) and gasoil (-400 kb/d) all still in deficit. The deficit versus 2019 is expected to widen slightly to 2.2 mb/d in 1Q22, partly as a result of the impact of Omicron-related restrictions on jet fuel consumption and of the anticipated displacement of petrochemical activity to non-OECD markets (especially China) following new plant start-ups.

| | OECD Demand based on Adjusted Preliminary Submissions - November 21 | | | | | | | | | | | | | | | |
|---------------------|---|------|---------|-------|-------|----------|------------|--------|--------|-------|-------|------|-------|------|-----------|--------|
| | | | | | | (million | barrels pe | r day) | | | | | | | | |
| | Gaso | line | Jet/Ker | osene | Dies | sel | Other (| Gasoil | LPG/Et | hane | RF | 0 | Oth | er | Total Pro | oducts |
| | mb/d | % pa | m b/d | % pa | m b/d | % pa | mb/d | % pa | m b/d | % pa | m b/d | % pa | m b/d | % pa | mb/d | % pa |
| OECD Americas | 10.68 | 12.7 | 1.74 | 37.8 | 4.82 | 6.6 | 0.56 | -13.4 | 4.00 | 4.7 | 0.45 | 14.6 | 2.99 | -1.8 | 25.15 | 9.1 |
| US* | 9.02 | 12.3 | 1.54 | 33.7 | 4.07 | 7.2 | 0.18 | -13.5 | 3.13 | 2.1 | 0.30 | 19.2 | 2.45 | -1.8 | 20.61 | 9.0 |
| Canada | 0.89 | 19.1 | 0.10 | 58.7 | 0.25 | -6.2 | 0.36 | -9.1 | 0.48 | 18.9 | 0.03 | 8.8 | 0.36 | 0.4 | 2.47 | 9.1 |
| Mexico | 0.69 | 12.8 | 0.08 | 110.8 | 0.31 | 12.4 | 0.02 | -50.2 | 0.35 | 20.3 | 0.10 | 10.1 | 0.17 | -0.1 | 1.72 | 13.3 |
| OECD Europe | 1.96 | 22.5 | 0.91 | 45.5 | 5.07 | 8.0 | 1.68 | 9.5 | 1.04 | -2.8 | 0.77 | 17.9 | 2.40 | -0.3 | 13.58 | 10.1 |
| Germany | 0.46 | 11.9 | 0.11 | 23.6 | 0.72 | 3.0 | 0.37 | 19.1 | 0.09 | -7.2 | 0.05 | -1.0 | 0.43 | 6.3 | 2.22 | 8.1 |
| United Kingdom | 0.29 | 25.0 | 0.22 | 34.9 | 0.52 | 9.3 | 0.16 | 5.2 | 0.10 | -22.2 | 0.02 | 11.2 | 0.11 | -5.2 | 1.39 | 11.3 |
| France | 0.21 | 65.0 | 0.12 | 74.9 | 0.74 | 20.0 | 0.14 | 27.2 | 0.13 | 15.0 | 0.04 | 27.3 | 0.22 | 0.4 | 1.59 | 24.5 |
| Italy | 0.18 | 46.5 | 0.07 | 60.0 | 0.51 | 22.8 | 0.09 | -4.2 | 0.09 | 11.3 | 0.07 | 32.4 | 0.29 | 2.6 | 1.28 | 18.9 |
| Spain | 0.11 | 21.9 | 0.09 | 169.5 | 0.44 | 10.4 | 0.25 | 7.6 | 0.05 | -13.1 | 0.12 | 23.7 | 0.20 | -5.7 | 1.21 | 12.5 |
| OECD Asia & Oceania | 1.36 | -4.8 | 0.60 | -4.3 | 1.37 | -7.3 | 0.53 | 1.6 | 0.77 | -3.3 | 0.49 | 6.9 | 2.51 | 22.5 | 7.60 | 3.6 |
| Japan | 0.72 | -5.1 | 0.33 | -13.8 | 0.40 | -4.0 | 0.31 | -0.9 | 0.42 | -0.6 | 0.26 | 9.5 | 1.07 | 13.2 | 3.51 | 1.0 |
| Korea | 0.22 | -9.9 | 0.16 | -4.1 | 0.36 | -14.7 | 0.15 | 8.4 | 0.29 | -8.1 | 0.21 | -0.9 | 1.27 | 35.8 | 2.62 | 8.8 |
| Australia | 0.29 | -0.8 | 0.10 | 74.3 | 0.54 | -5.6 | - | - | 0.04 | -1.4 | 0.01 | 48.8 | 0.11 | 2.2 | 1.10 | 1.3 |
| OECD Total | 14.00 | 12.0 | 3.26 | 29.2 | 11.26 | 5.3 | 2.77 | 2.5 | 5.81 | 2.2 | 1.71 | 13.7 | 7.90 | 5.3 | 46.33 | 8.4 |

^{*} Including US territories

OECD oil demand for 2021 is now projected to grow by 2.5 mb/d to 44.5 mb/d and for 2022 rise by 1.6 mb/d to 46.2 mb/d. Demand in 2022 will remain 1.5 mb/d lower than 2019, with only LPG and naphtha above pre-pandemic levels.

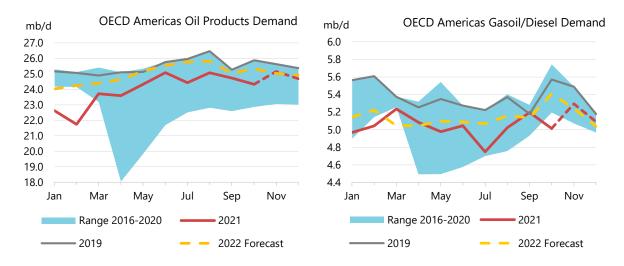
OECD Americas

Provisional November data indicate an 820 kb/d increase in OECD Americas demand from October. LPG/ethane posted the largest increase at 620 kb/d m-o-m, reflecting a combination of the typical seasonal increase for heating and a rebound in US petrochemical consumption from October. Gasoil increased by 280 kb/d and gasoline by 70 kb/d.

Despite strong year-on-year (y-o-y) growth of 2.1 mb/d in November, deliveries remain 480 kb/d lower than in 2019. For 4Q21 demand looks set to be 910 kb/d below pre-pandemic levels, with the gap forecast to narrow slightly, to 820 kb/d, in 1Q22. The recovery in jet/kerosene is expected to stall with new waves of Covid-19 cases, but should gather momentum later in the year, to average 200 kb/d below 2019 for 2022. We forecast that overall 2022 OECD Americas demand will grow by 860 kb/d y-o-y, led by jet/kerosene (+300 kb/d), gasoline (+270 kb/d) and LPG (+170 kb/d). Nonetheless overall deliveries will be 480 kb/d short of 2019.

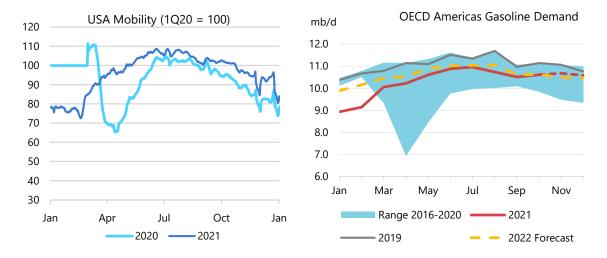
October demand has been revised down by 650 kb/d following the submission of more complete data. The largest contribution to this was the much weaker-than-expected ethane consumption in the US (LPG/ethane -200 kb/d m-o-m). Final US gasoline deliveries were also 300 kb/d lower than suggested by provisional data and Canada (-140 kb/d) posted a larger than normal contraction.

Prompt data from the US Bureau of Transportation Statistics (BTS) suggest that mobility reached 2019 levels during October before surpassing them in November and December. While not directly translating into oil demand, they suggest that mobility in the US has largely recovered from the impacts of the pandemic and that 2022 as a whole is likely to see a substantial y-o-y gain.



Provisional November data from the US indicates 490 kb/d m-o-m growth based on rebounding gasoil demand (+240 kb/d), rising above the five-year average once again. As has been common in recent months, October deliveries were revised lower for gasoline based on more complete statistics. Notwithstanding this, gasoline demand in October was flat m-o-m and 640 kb/d higher y-o-y, reflecting strong mobility data.

The IHS Markit US Manufacturing PMI indicates that expansion slowed in December, with the index contracting to 57.7 from 58.3 in November. We expect this to be reflected in continued but more moderate oil demand growth through the remainder of the quarter. However, expectations for GDP growth in 4Q21 have been revised higher (as have those in the first three quarters of 2022), helping to boost our December estimate versus last month's Report. US road fuel demand is expected to continue its gradual recovery, with aggregate diesel and gasoline demand growing y-o-y by 980 kb/d in 4Q21, 660 kb/d in 1Q22 and 170 kb/d for 2022 as a whole.



US jet/kerosene demand was 60 kb/d higher m-o-m in November. Data from *Radarbox* indicates that domestic US flights were roughly steady compared with October and that US international flights increased in line with seasonal holiday trends in November and early December. We forecast that jet/kerosene deliveries will be unchanged m-o-m in December but will fall faster than the seasonal trend in January due to flight restrictions and operational difficulties for airlines.

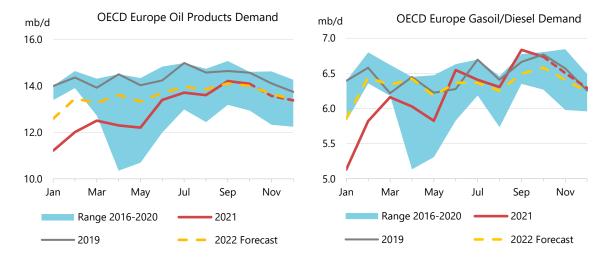
Following the surprisingly high ethane demand reported for September by the US Energy Information Administration's Petroleum Supply Monthly (PSM), the October data indicates an unexpected fall in consumption. This contributed to a 200 kb/d fall m-o-m for LPG/ethane demand, which was the result of continued operational issues at some hurricane-effected plants, several maintenance shutdowns and some restocking of tertiary ethane inventories. Our expectation is that operators were able to regain much of the losses in November and December. Along with increased winter heating demand this means that 4Q21 should average 110 kb/d higher than 4Q19 but 55 kb/d lower than 4Q20.

Canadian deliveries fell by 140 kb/d m-o-m in October (250 kb/d higher y-o-y and 320 kb/d below 2019). LPG deliveries declined by 80 kb/d. We expect demand to rebound by 160 kb/d in November and to average 2.3 mb/d for 2021, well below the 2.5 mb/d recorded in 2019. Mexican demand bounced back strongly in November, according to provisional data. After six months of m-o-m declines, Mexican oil demand rose by 190 kb/d in November. Both gasoline and gasoil demand posted very strong growth, increasing m-o-m by 65 kb/d and 50 kb/d, respectively. We expect q-o-q growth of 70 kb/d in 4Q21.

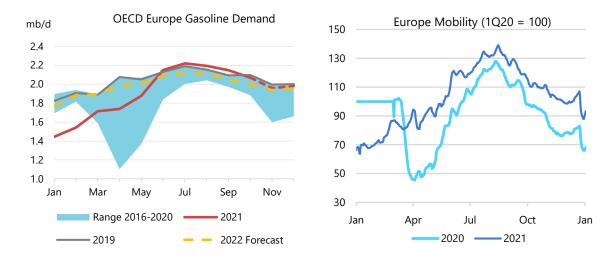
OECD Europe

Overall OECD Europe deliveries for October declined by 120 kb/d m-o-m, tracking typical changes for the month. Provisional November data indicates a decline of 520 kb/d m-o-m, a little

faster than the normal seasonal drop. The December *IHS Markit Eurozone Manufacturing PMI* indicates continued expansion – despite the index slowing to 58 from 58.4 in November. We expect this to result in substantial growth of 1.2 mb/d y-o-y for 4Q21, which will continue into 1Q22.



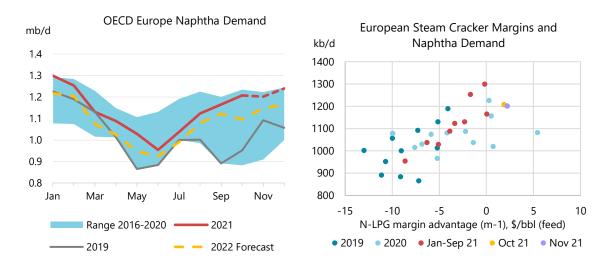
Provisional November data from Germany suggests that there may have been a little less support from oil in power generation, compared with the previous month, as spot natural gas prices eased slightly in late-October. We expect some renewed growth from this fuel switching in Europe, concentrated in other gasoil (gasoil excluding diesel) and fuel oil, in December and January as gas prices remained volatile through end-2021, spiking in late-December. By October, aggregate other gasoil and fuel oil deliveries had increased by 100 kb/d more than the normal seasonal trend, we expect this to widen to 120 kb/d of extra demand in December and 160 kb/d in January.



Resurgent gasoil and gasoline demand have underpinned the relative recovery seen in recent months and each stood only 30 kb/d below 2019 levels in October. This recent strength has resulted from the release of pent-up demand, higher mobility, and lower use of public transport. By and large, these factors have not been significantly eroded by the autumn wave of Covid-19 Delta variant cases. As a result, we are continuing with our assumption that there will not be a large negative impact on these fuels going forward from the recent explosion in cases due to the Omicron variant.

OECD Europe demand growth is pegged at 590 kb/d in 2021 and forecast to rise by a further 560 kb/d in 2022, driven primarily by gasoil (+260 kb/d) and gasoline (+170 kb/d) in 2021 and by recovering jet/kerosene (+300 kb/d) in 2022. The Omicron variant is expected to slow the ongoing recovery in jet/kerosene demand during 1Q22, but growth should gather pace in 2Q22 and return to close to the five-year average throughout the remainder of the year.

Prompt flight traffic data from *Radarbox* shows that activity gained momentum during December, with intra-European flights approaching 2019 levels by the end of the month. Early January saw a substantial decline in numbers, however, with demand now expected to fall by 120 kb/d for the month.

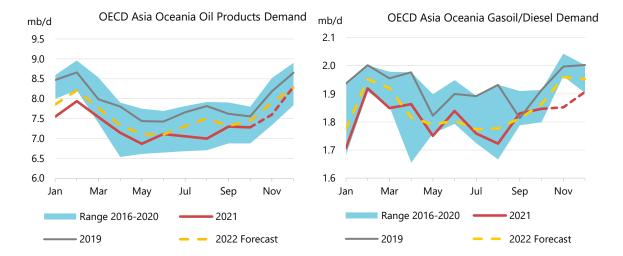


'Naphtha – LPG margin advantage (m-1)' is the difference between the indicative margins for steam cracking using naphtha and using LPG. This has been applied on a month-1 basis.

Naphtha demand in Europe has been particularly strong in recent months, with October deliveries 260 kb/d above the level of 2019, when no other major oil product surpassed its pre-pandemic level. The higher levels reflect the general strength of petrochemical demand, and the very competitive naphtha costs versus LPG as a feedstock for olefins production. Many European steam cracker operators have flexibility to replace some of their naphtha intake with LPG. Recent tightness lifted prices, making global LPG less attractive and boosting naphtha consumption. However, with prices rebalancing, this margin advantage began to fade late in the year, suggesting that naphtha demand will begin to soften in 2022.

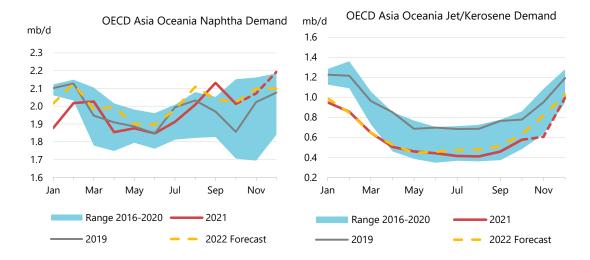
OECD Asia Oceania

In October, OECD Asia Oceania oil demand slipped by 20 kb/d, less than the typical -40 kb/d. Naphtha (-120 kb/d) and LPG (-40 kb/d) posted the largest declines, in part due to petrochemical plant maintenance in Korea. In contrast, jet/kerosene demand climbed by 120 kb/d, concentrated in Japan (+100 kb/d). Japanese demand for kerosene typically rises in October as heating requirements increase but this was supplemented by higher air traffic activity. *Radarbox* data suggest that both Japanese domestic and international flight numbers saw a modest increase.



Preliminary data for November show deliveries climbing by 320 kb/d, which is considerably less than the typical seasonal increase. LPG is set to rise by 70 kb/d, in line with the five-year average driven by heating. While demand for all products rose, the increase for gasoil was less than 10 kb/d, in contrast to an average rise of 130 kb/d over the last five years.

Japanese demand growth in November (+160 kb/d) was roughly half of the average seasonal change, with gasoil flat instead of rising, and gasoline demand falling counter-seasonally. Gasoline deliveries remain firmly at the bottom of the five-year range. However, mobility indicators suggest growth relative to 2020 in late-November, December and early January. The current spike in Covid cases in Japan should impact mobility in 1Q22. Nevertheless, we expect y-o-y growth of 70 kb/d in gasoline demand for the quarter.



Although hard data is not yet available, we expect that Australia will see increases to jet/kerosene and gasoline demand from November in line with the relaxation of pandemic-restrictions and the beginning of summer. Mobility data shows continuous growth through 4Q21, with December 2021 averaging a 4% y-o-y gain. Prompt data showed that the number of domestic flights increased strongly from the end of October, exceeding pre-pandemic levels by the end of 2021. Official Aviation Guide (OAG) data shows that Australian passenger demand increased by 27% m-o-m in November and 76% m-o-m in December (although remaining 40 % below 2019 levels). The current spike in Covid case in Australia is likely to reduce mobility in the short term.

Non-OECD

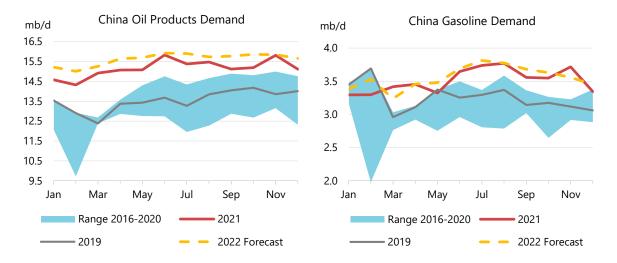
Non-OECD oil demand rose by 430 kb/d m-o-m in October, well above the typical seasonal increase. Demand continued to increase in November (+450 kb/d), according to data available for some countries.

Several large non-OECD oil users started imposing strong restrictions in response to the jump of Covid cases in December, and we expect demand in non-OECD countries to drop by 470 kb/d for the month.

Non-OECD oil demand reached pre-pandemic levels on average in 2021, marginally ahead of 2019. Demand will decline by 260 kb/d in 1Q22, but nonetheless it will stand 1.6 mb/d above pre-pandemic levels. Due to restrictions in India and China, jet/kerosene will remain 1.2 mb/d below 1Q19. For 2022, non-OECD oil demand is projected to increase by 1.7 mb/d.

China

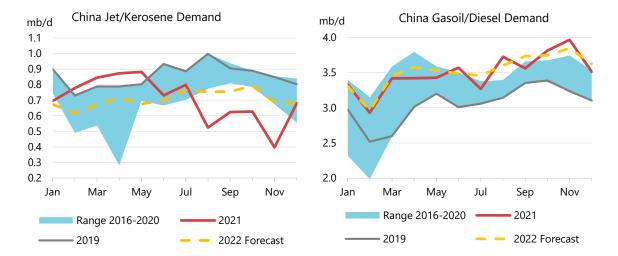
Chinese apparent oil demand increased by 620 kb/d m-o-m in November, reflecting a stabilisation in economic activity. The *Caixin Manufacturing PMI* rose from 49.9 in November to 50.9 in December. Gasoil and gasoline demand went up strongly in November, increasing by 155 kb/d and 170 kb/d m-o-m, respectively. However, new lockdown measures coming weeks ahead of the Winter Olympic Games are likely to reduce mobility and demand.



At the time of writing, about 20 million people are currently under lockdowns (13 million in Xi'an, 1.1 million in Yuzhou and 5.5 million in Anyang). This represents an effort to control the spread of Covid cases ahead of Winter Olympics (4 February).

November jet/kerosene demand dropped by 230 kb/d m-o-m with the new travel restrictions. However, it is projected to increase by 280 kb/d in December, as the number of domestic flights surged in the second half of the month according to daily data from *Radarbox*. *OAG* flight capacity data also show that global scheduled flights rose by 12.5% m-o-m in December. Air traffic should remain at this level for a while, as China is unlikely to remove international air transport restrictions while domestic flights may plateau.

In this *Report* we have increased our estimates of ethane demand in China in 2021 by 60 kb/d as we are now using new estimates for ethane imports based on cargo tracking.



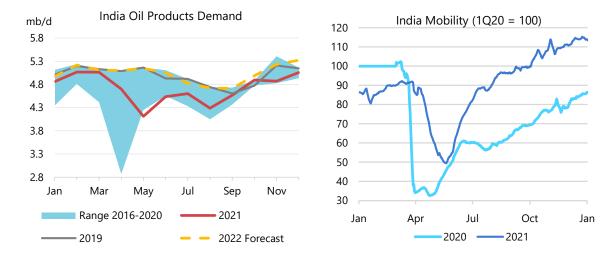
China's 4Q21 apparent oil demand is projected to rise 40 kb/d q-o-q (+510 kb/d y-o-y). Quarterly increases for naphtha (+200 kb/d) and gasoil (+240 kb/d) will more than offset declines in gasoline (-160 kb/d) and other products (-100 kb/d).

| | | Chin | a: Demand | by Produ | ct | | | | | | | | | |
|---|---|--------|-----------------|-------------|-------|-----|------|------|--|--|--|--|--|--|
| | | | (thousand barre | ls per day) | | | | | | | | | | |
| | Demand Annual Chg (kb/d) Annual Chg (%) | | | | | | | | | | | | | |
| 2019 2020 2021 2022 2021 2022 2021 2022 | | | | | | | | | | | | | | |
| LPG & Ethane | 1 737 | 1 869 | 2 209 | 2 288 | 341 | 79 | 18.2 | 3.6 | | | | | | |
| Naphtha | 1 338 | 1 444 | 1 643 | 1 822 | 199 | 179 | 13.8 | 10.9 | | | | | | |
| Motor Gasoline | 3 248 | 3 200 | 3 511 | 3 558 | 310 | 47 | 9.7 | 1.3 | | | | | | |
| Jet Fuel & Kerosene | 857 | 702 | 704 | 708 | 2 | 3 | 0.3 | 0.5 | | | | | | |
| Gas/Diesel Oil | 3 052 | 3 161 | 3 498 | 3 531 | 338 | 32 | 10.7 | 0.9 | | | | | | |
| Residual Fuel Oil | 432 | 424 | 466 | 495 | 41 | 29 | 9.7 | 6.3 | | | | | | |
| Other Products | 2 881 | 3 093 | 3 126 | 3 226 | 34 | 100 | 1.1 | 3.2 | | | | | | |
| Total Products | 13 546 | 13 893 | 15 158 | 15 627 | 1 265 | 469 | 9.1 | 3.1 | | | | | | |

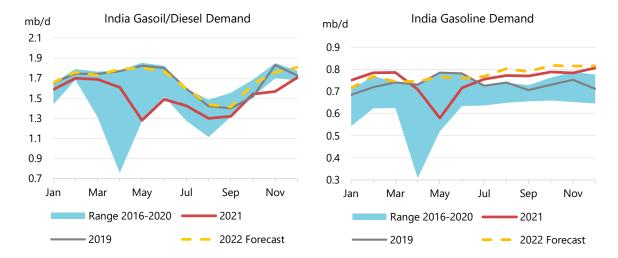
We estimate 2021 demand at 15.2 mb/d (+1.3 mb/d y-o-y). Demand in 2022 is forecast to increase to 15.6 mb/d (+470 kb/d y-o-y). We expect demand for all oil products to expand further in 2022, with petrochemical feedstocks — naphtha (+180 kb/d y-o-y) and LPG/Ethane (+80 kb/d y-o-y) — accounting for over 50% of Chinese growth.

India

The economic environment in India deteriorated slightly in December, with the *IHS Markit Manufacturing PMI* slowing to 55.5 from 56.3 in November. Mobility data remained strong, despite showing a slight slowdown at the end of the month.



The Omicron variant arrived in India in December with measures taken by the states to control the spread of the virus ranging from partial lockdowns and curfews, to restrictions on mass gatherings. Average Indian deliveries rose by 190 kb/d m-o-m in December (+20 kb/d y-o-y). Deliveries were 90 kb/d below 2019 levels. While gasoline demand remained very strong (+90 kb/d versus pre-pandemic levels) jet/kerosene deliveries were affected by travel restrictions.



Data from *OAG* show an 8.4% increase in air traffic in December, which was 11.6% below 2019 levels. Jet/kerosene demand increased by 10 kb/d m-o-m in both November and December. November jet/kerosene demand remains 50 kb/d below pre-pandemic levels.

Indian oil demand is forecast to increase by 320 kb/d in 2022. Gasoil will post the strongest gains versus relatively weak 2021 growth. Indian oil demand is expected to slightly surpass 2019 levels (+40 kb/d) in 2022 at 5.03 mb/d.

| | | Indi | a: Demand | by Produc | et e | | | | | | | | | |
|---------------------|---|-------|-----------------|-------------|------|------|-------|-------|--|--|--|--|--|--|
| | | | (thousand barre | ls per day) | | | | | | | | | | |
| | Demand Annual Chg (kb/d) Annual Chg (%) | | | | | | | | | | | | | |
| | 2019 | 2020 | 2021 | 2022 | 2021 | 2022 | 2021 | 2022 | | | | | | |
| LPG & Ethane | 837 | 869 | 888 | 883 | 19 | - 5 | 2.1% | -0.6% | | | | | | |
| Naphtha | 308 | 318 | 317 | 339 | - 1 | 22 | -0.2% | 6.8% | | | | | | |
| Motor Gasoline | 734 | 667 | 750 | 776 | 83 | 26 | 12.4% | 3.4% | | | | | | |
| Jet Fuel & Kerosene | 225 | 120 | 128 | 152 | 9 | 24 | 7.1% | 18.4% | | | | | | |
| Gas/Diesel Oil | 1 667 | 1 414 | 1 516 | 1 679 | 102 | 163 | 7.2% | 10.7% | | | | | | |
| Residual Fuel Oil | 145 | 136 | 141 | 146 | 5 | 4 | 4.0% | 3.2% | | | | | | |
| Other Products | 1 076 | 1 016 | 974 | 1 058 | - 42 | 84 | -4.2% | 8.6% | | | | | | |
| Total Products | 4 991 | 4 540 | 4 715 | 5 032 | 175 | 317 | 3.8% | 6.7% | | | | | | |

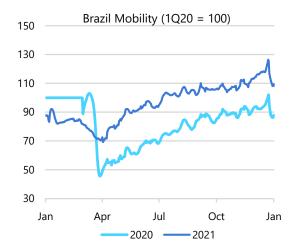
Other Non-OECD

In **Africa**, demand is projected to increase by 115 kb/d q-o-q in 4Q21, leaving consumption 220 kb/d below 4Q19 levels. Mobility remains strong. In 2022, oil demand growth is projected to increase by 100 kb/d y-o-y, but will still be 150 kb/d below pre-pandemic levels on average.



In the **Middle East**, 2022 demand is projected to increase by 120 kb/d. However, oil use in the power sector will be largely displaced by natural gas and renewables in several countries. 2022 oil demand will remain 140 kb/d below pre-pandemic levels, with jet/kerosene (-180kb/d) and other products – which include direct crude use- (-80 kb/d) having lost the most ground.

Russian deliveries fell by 30 kb/d m-o-m in November. Russian demand in 2021 was very robust, increasing by 230 kb/d to 85 kb/d above its pre-pandemic levels. Jet kerosene demand rose on a strong rebound in air transport demand, increasing by 40 kb/d on average for the year (and 40 kb/d y-o-y in November 2021) to reach 2019 levels. In 1Q22, demand is projected to drop by 160 kb/d q-o-q, in line with seasonal trend. Jet/kerosene demand is 10 kb/d above the level of 2019, based on the strength of domestic aviation. In 2022, Russian oil demand is projected to increase by 110 kb/d y-o-y to 3.8 mb/d and to exceed pre-pandemic levels by 200 kb/d.





Brazilian oil deliveries dropped by 110 kb/d m-o-m in November. Deliveries of gasoline fell by 40 kb/d and gasoil by 70 kb/d. Average 4Q21 demand is estimated to be 20 kb/d lower than prepandemic levels. Total 2022 demand is forecast to be 40 kb/d lower y-o-y. Gasoil deliveries will decline by 60 kb/d y-o-y, in the absence of exceptional drought-related support, but will still remain 20 kb/d above 2019 levels.

Total Latin America oil demand growth is projected to slow to 65 kb/d in 2022, as the return to normal levels of rainfall will reduce the need to use gasoil for irrigation and in the power sector. Oil demand will reduce its gap versus pre-Covid levels from 320 kb/d in 2021 to 260 kb/d in 2022. Gasoline and jet/kerosene will post the strongest growth.

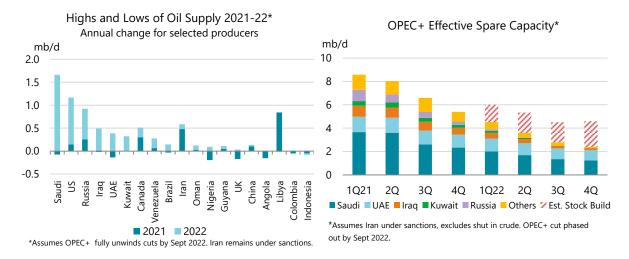
| | Non-OECD: Demand by Region | | | | | | | | | | | |
|-----------------------|----------------------------|--------|------------|------------------|----------|-----------|--------|----------|--|--|--|--|
| | | | (tho usand | barrels per day) | | | | | | | | |
| | | | Demand | | Annual C | hg (kb/d) | Annual | C hg (%) | | | | |
| | 2019 | 2020 | 2021 | 2022 | 2021 | 2022 | 2021 | 2022 | | | | |
| Africa | 4 250 | 3 815 | 4 007 | 4 104 | 192 | 97 | 5.0 | 2.4 | | | | |
| Asia | 27 537 | 26 489 | 28 311 | 29 572 | 1 822 | 1 261 | 6.9 | 4.5 | | | | |
| FSU | 4 723 | 4 501 | 4 783 | 4 926 | 282 | 143 | 6.3 | 3.0 | | | | |
| Latin America | 6 293 | 5 608 | 5 982 | 6 050 | 374 | 68 | 6.7 | 1.1 | | | | |
| Middle East | 8 244 | 7 728 | 7 982 | 8 100 | 254 | 118 | 3.3 | 1.5 | | | | |
| Non-OECD Europe | 782 | 741 | 768 | 779 | 27 | 11 | 3.6 | 1.4 | | | | |
| Total Products | 51 829 | 48 883 | 51 832 | 53 531 | 2 950 | 1 698 | 6.0 | 3.3 | | | | |

Supply

Overview

The global oil supply growth story this year looks markedly different from 2021, with the world's big three producers – the US, Saudi Arabia and Russia – eyeing volumes at or near annual records. Canada and Brazil are also aiming for their highest ever levels. World oil supply in 2022 has the potential for a massive Saudi-driven gain of 6.2 mb/d, provided the OPEC+ alliance continues to unwind the remainder of its record 2020 supply cut.

In 2021, annual production gains of 1.5 mb/d were led by Libya, exempt from OPEC+ cuts. Iran, also spared from curbs but under US sanctions, took the number two spot. Nigeria, the UK and Angola posted the biggest losses, although they could all see output at least stabilise in 2022.



With OPEC+ total oil supply, including condensates and NGLs, set to expand this year by an average 4.4 mb/d (adjusting for modest downward revisions in Russia and Nigeria), the bloc's market share would rise to 53% from 51% in 2021. That would result in reduced effective OPEC+ spare capacity in 2H22 of 2.6 mb/d - held primarily by Saudi Arabia along with the UAE. Russia is expected to pump virtually flat out from May onwards.

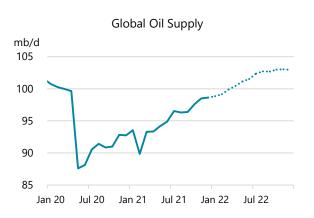
Led by the US, oil output from those outside the alliance (non-OPEC+) is expected to rise by 1.8 mb/d y-o-y. With Canada and Brazil also set to deliver solid growth, these three countries combined will account for 75% of non-OPEC+ gains in 2022.

That said, supply disruptions and underperformance by OPEC+ are tempering growth expectations for 2022. And the more restrained rise in supply this year, combined with our higher demand estimate, has tightened the balances compared to last month's *Report*. Still, we expect OPEC+ to pump 1.5 mb/d above the call on its crude in 1Q22, provided it continues to unwind its cuts and assuming Iran remains under sanctions. By 2Q22, OPEC+ crude oil output could rise to 1.7 mb/d above the call.

December saw world oil output edge up by 130 kb/d to 98.6 mb/d after combined outages of over 400 kb/d in Ecuador, Libya and Nigeria partly offset higher flows from the US, Saudi Arabia,

Norway, Canada and elsewhere in OPEC+. The rise in December would have been higher had OPEC+ delivered a monthly increase of 400 kb/d as per its existing supply pact. In the end, gains were only 250 kb/d after Nigerian output sank and Russia pumped below its December quota. As a result, the gap between the group's output and its target widened to 790 kb/d.

This month could see a larger increase in world oil output, with recoveries in Ecuador and Libya and higher exports from Nigeria under way. OPEC+ is due



* Assumes OPEC+ cut phased out by Sept 2022. Iran remains under sanctions.

to boost supply by a further 400 kb/d, but the additional increment is likely to be lower as nations outside the Middle East continue to struggle with technical issues and capacity constraints. Kazakh production, which has been running above its OPEC+ quota, looks set to fall m-o-m after flows at Tengiz, its biggest oil field, were briefly disrupted by protests at the start of January.

The 23-member OPEC+ bloc has meanwhile confirmed that it will proceed with monthly increases through February and is due to meet again on 2 February to review policy. As for non-OPEC+, cold weather during January has hampered operations in parts of the US and Canada, temporarily reducing supply.

Saudi to drive 2022 OPEC crude supply

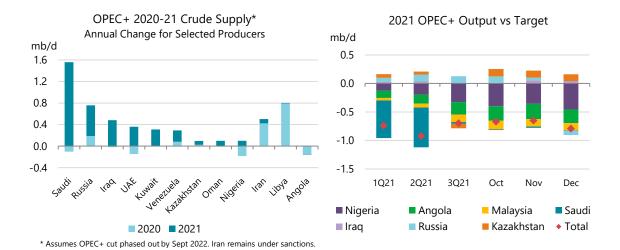
Saudi Arabia, potentially the biggest source of growth this year, could propel OPEC+ crude oil gains of around 4 mb/d in 2022, provided the group fully unwinds its curbs. During 2021, output of crude from the 23-member bloc rose 830 kb/d to 41.4 mb/d – driven by Libya and Iran, both exempt from cuts. Covid-related maintenance delays along with technical and operational issues cut Nigerian output to an annual level last seen in 1987 and knocked Angolan supply to a 17-year low.

The continuing erosion in Nigerian and Angolan capacity, along with others outside the Middle East, is likely to prevent OPEC+ from fulfilling the agreed monthly 400 kb/d increase for the 19 members subject to cuts. We foresee an average 270 kb/d monthly gain through September unless Saudi Arabia and the UAE, the only producers with substantial spare, pump more to compensate. By 2H22, effective spare capacity, excluding Iranian crude shut in by sanctions, could shrink to 2.6 mb/d.

It was Saudi Arabia that led December OPEC+ crude supply higher, hitting 10 mb/d and overtaking Russia as the bloc's largest producer for the first time since April 2020. At 43.54 mb/d, output from all 23 members of OPEC+ rose 190 kb/d m-o-m. Taking into account only the 19 members bound by cuts, output was up 250 kb/d, well short of the planned 400 kb/d increase. As a result, their combined production trailed 790 kb/d below target in December compared to a gap of 650 kb/d the month before. Compliance with the OPEC+ agreement reached 121%, the highest since record cuts were enforced in May 2020.

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Production of crude from OPEC countries increased by 190 kb/d during December to 27.99 mb/d. At their January meeting, OPEC members unanimously elected Kuwait's Haitham al-Ghais, a 30-year oil industry veteran, to succeed Nigeria's Mohammed Barkindo as the new OPEC Secretary General in August.



As for the alliance's non-OPEC countries, flows of crude were flat m-o-m at 15.55 mb/d, with Russia pumping a touch less for the month. In line with its agreement, OPEC+ is further easing curbs in January, with cuts versus baseline production at 3.4 mb/d, down from the record 9.7 mb/d when they were adopted in May 2020.

| | OPEC+ Crude Oil Production¹ | | | | | | | | | | |
|------------------------|-----------------------------|----------|---------------|--------------|-----------------------|-----------|------------|-------------|--|--|--|
| | | | (million barr | els per day) | | | | | | | |
| | Nov 2021 | Dec 2021 | December | Dec 2021 | Sustainable | Spare Cap | 2021 Avg | Chg vs | | | |
| | Supply | Supply | Compliance | Target | Capacity ² | vs Dec | Production | 2020 Output | | | |
| Algeria | 0.96 | 0.97 | 92% | 0.96 | 0.99 | 0.02 | 0.91 | 0.01 | | | |
| Angola | 1.11 | 1.15 | 278% | 1.39 | 1.17 | 0.02 | 1.12 | -0.15 | | | |
| Congo | 0.26 | 0.28 | 155% | 0.30 | 0.29 | 0.01 | 0.27 | -0.03 | | | |
| Equatorial Guinea | 0.07 | 0.10 | 245% | 0.12 | 0.12 | 0.02 | 0.10 | -0.01 | | | |
| Gabon | 0.19 | 0.21 | -135% | 0.17 | 0.21 | -0.01 | 0.18 | -0.02 | | | |
| Iraq | 4.25 | 4.28 | 90% | 4.24 | 4.82 | 0.54 | 4.03 | -0.02 | | | |
| Kuwait | 2.53 | 2.55 | 103% | 2.56 | 2.78 | 0.23 | 2.42 | 0.00 | | | |
| Nigeria | 1.29 | 1.21 | 380% | 1.67 | 1.53 | 0.32 | 1.31 | -0.18 | | | |
| Saudi Arabia | 9.89 | 10.01 | 101% | 10.02 | 12.22 | 2.21 | 9.12 | -0.09 | | | |
| UAE | 2.86 | 2.88 | 102% | 2.89 | 4.03 | 1.15 | 2.72 | -0.14 | | | |
| Total OPEC-10 | 23.41 | 23.64 | 128% | 24.30 | 28.15 | 4.52 | 22.19 | -0.62 | | | |
| Iran ³ | 2.47 | 2.50 | | | 3.80 | 1.30 | 2.42 | 0.42 | | | |
| Libya ³ | 1.14 | 1.05 | | | 1.23 | 0.18 | 1.15 | 0.79 | | | |
| Venezuela ³ | 0.78 | 0.80 | | | 0.81 | 0.01 | 0.61 | 0.08 | | | |
| Total OPEC | 27.80 | 27.99 | | | 34.00 | 6.01 | 26.36 | 0.68 | | | |
| Azerbaijan | 0.59 | 0.60 | 189% | 0.65 | 0.60 | 0.00 | 0.59 | -0.01 | | | |
| Kazakhstan | 1.66 | 1.67 | 23% | 1.56 | 1.69 | 0.02 | 1.52 | 0.02 | | | |
| Mexico ⁴ | 1.67 | 1.64 | | 1.75 | 1.69 | 0.05 | 1.67 | 0.01 | | | |
| Oman | 0.78 | 0.80 | 111% | 0.80 | 0.87 | 0.08 | 0.75 | -0.01 | | | |
| Russia | 9.96 | 9.95 | 107% | 10.02 | 10.23 | 0.28 | 9.61 | 0.19 | | | |
| Others ⁵ | 0.89 | 0.89 | 218% | 1.01 | 0.93 | 0.04 | 0.89 | -0.05 | | | |
| Total Non-OPEC | 15.55 | 15.55 | 110% | 15.79 | 16.01 | 0.46 | 15.04 | 0.15 | | | |
| OPEC+-19 in cut deal⁴ | 37.29 | 37.55 | 121% | 38.34 | 42.47 | 4.93 | 35.56 | -0.48 | | | |
| Total OPEC+ | 43.35 | 43.54 | | | 50.01 | 6.47 | 41.40 | 0.83 | | | |
| | | | | | | | | | | | |

¹ Excludes condensates

Saudi Arabia pumped 10.01 mb/d during December (+120 kb/d m-o-m), just a touch below its higher quota. For 2021 as a whole, the Kingdom's crude supply declined by 90 kb/d to 9.1 mb/d

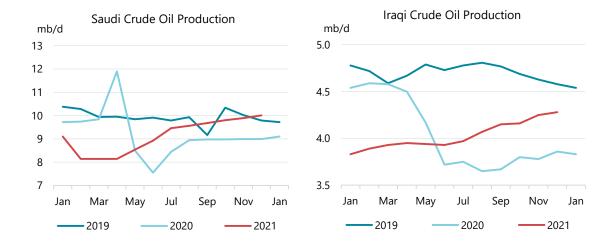
² Capacity levels can be reached within 90 days and sustained for extended period.

³ Iran, Libya, Venezuela exempt from cuts.

⁴ Mexico excluded from OPEC+ compliance. Only cut in May, June 2020.

⁵ Bahrain, Brunei, Malaysia, Sudan and South Sudan.

due to several months of extra voluntary OPEC+ cuts. Its annual production of crude this year could rise to an annual record of 10.7 mb/d, reducing its spare capacity to 1.6 mb/d.



Supply from Iraq, including the Kurdistan Regional Government, increased 30 kb/d to 4.28 mb/d, leaving it 40 kb/d above its December quota. For 2021 as a whole, crude oil production dipped to 4 mb/d. Supply could increase by as much as 500 kb/d this year. Baghdad has meanwhile given its approval for the Iraqi National Oil Co to acquire ExxonMobil's share in the 500 kb/d West Qurna-1 field. Other partners in the giant southern oil field are PetroChina (32.7%), Itochu (19.6%), Pertamina (10%) and Iraq's Oil Exploration Co (5%).

Total Iraqi shipments of crude oil edged up in December to 3.66 mb/d after exports increased from the north. Shipments of Basra crude accounted for roughly 3.2 mb/d of the total. Baghdad says export capacity at its Gulf terminals will rise by around 200 kb/d to 3.45 mb/d from 2Q22 after finishing the installation of new pumps. That is still far below nameplate capacity of more than 4 mb/d. Due to lingering bottlenecks in ageing southern infrastructure, we have lowered Iraq's sustainable production capacity by around 100 kb/d to 4.8 mb/d.

Production during December rose modestly elsewhere in the Gulf. In **Kuwait**, crude oil output increased to 2.55 mb/d last month, well above the average 2021 level of 2.4 mb/d. Supply also edged up in the **UAE** to 2.88 mb/d. We have raised production capacity in the UAE by roughly 100 kb/d to 4 mb/d after the Upper Zakum oil field reached capacity of 1 mb/d three years ahead of schedule. For 2021, annual production in the UAE was 2.7 mb/d, down 140 kb/d on 2020 when it pumped far above its OPEC+ target for several months. This year, output could reach an average 3.1 mb/d, leaving it with nearly 1 mb/d of spare capacity. Output in **Bahrain** dipped to 180 kb/d while production from **Oman** increased slightly to 800 kb/d.

Crude oil supply from Iran, exempt from output cuts, rose marginally to 2.5 mb/d in December. Talks to revive its 2015 nuclear deal with world powers are continuing. If sanctions are eased, we believe Iran will be able to ramp up swiftly towards sustainable production capacity of 3.8 mb/d. Undeterred by sanctions, Iran expects by 2023 to double capacity to 320 kb/d at its southern Azadegan field, which straddles the border with Iraq. Iran managed to boost its crude supply in 2021 to 2.4 mb/d (up 420 kb/d y-o-y) after it ramped up oil exports to China.

Russian crude supply eased 10 kb/d in December to 9.95 mb/d, with compliance rising to 107%. A sharp decline at Rosneft's fields, the country's largest producer, was the main factor behind the dip in December that saw Russia pump below quota for the first time since record OPEC+ cuts

were enforced in May 2020. Total supply, including condensates and NGLs, was flat m-o-m at 11.25 mb/d.

Box 1. Russia needs to drill hard, spend more to approach record highs

In 2021, Russia pumped 260 kb/d above year-ago levels, bringing its total oil output (including condensates and NGLs) to 10.9 mb/d for the year. This increase was far more than any other OPEC+ producer subject to cuts and output gains could more than double this year, provided there's a full phase-out. That would push Russia close to an all-time high in 2022 but will require more capital, potential easing of fiscal terms and front loaded drilling schedules.

Most Russian companies increased production in 2021 but output from Rosneft and Gazprom Neft fell by 77 kb/d and 5 kb/d, respectively. For Rosneft, the decline was mostly due to the divestment of marginal brownfield assets. Gazprom Neft's Novoportovskoye was hit hard after the company revised the field's development plan due to a tax status issue. Most of the Lukoil and Surgutneftegaz core assets increased production.



Market consensus is that Russia will struggle to reach its OPEC+ crude oil target of 11 mb/d given its previous pre-pandemic best was 10.6 mb/d. Our 2022 outlook has been revised down by 130 kb/d, with crude oil capacity pegged around 10.2 mb/d, to reflect the latest official targets. Russian deputy prime minister Alexander Novak has said Russia can reach its pre-Covid level by April or May, with crude and condensate production rising in 2022 to between 540-560 million tonnes (mt) (10.8-11.2 mb/d using a 7.3 bbl/t conversion rate). Meanwhile, Russia's largest oil producers are planning a significant uptick in investment for 2022 aimed at bolstering output. Rosneft and Lukoil plan to hike capital expenditure by around 20% this year, while Gazprom Neft has announced a 10% increase.

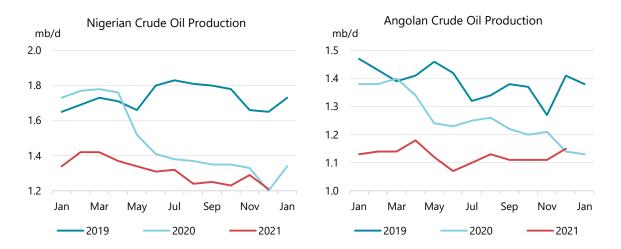
Kazakhstan's crude oil output inched up to 1.67 mb/d in December, but is likely to ease this month after deadly protests briefly reduced flows at Tengiz, its biggest oil field. The country's two other giant fields, Kashagan and Karachaganak, have kept pumping as normal but there were disruptions at some smaller fields. During 2021, Kazakh crude production ran at an average 1.5 mb/d, up 20 kb/d y-o-y. **Azeri** crude oil production in December crept up to 600 kb/d.

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Nigerian crude supply fell 80 kb/d to 1.21 mb/d in December due to *force majeure* on exports from the Forcados crude stream and lingering issues with Bonny Light. Official data show Bonny Light production slipping to 70 kb/d compared to an average 170 kb/d in 1H21. Forcados declined by 60 kb/d to 150 kb/d.

However, production looks set to recover this month after the Forcados *force majeure* was lifted at the end of December and tanker tracking shows higher overall shipments. Persistent technical and operational issues, sabotage and pipeline leaks cut Nigerian output in 2021 to just 1.3 mb/d (-180 kb/d y-o-y) – a 34-year low.

In **Angola**, crude oil output in December rose 40 kb/d m-o-m to 1.15 mb/d, supported by the recent start-up of new fields. TotalEnergies has brought on Phase 2 of its CLOV development which is due to reach a 40 kb/d peak in mid-2022 and BP has started up the 30 kb/d Platina deepwater field. Apart from the two new oil fields, recent months have seen Eni start up the 15 kb/d Cabaca North and 10 kb/d Cuica fields, while TotalEnergies brought on its 40 kb/d Zinia Phase 2 project. Nagging technical issues and lack of investment have seen production slump to 17-year lows. For 2021, production fell 150 kb/d to 1.12 mb/d.



Supply edged up modestly in **Equatorial Guinea**, **Gabon**, **Congo** and **Algeria**. Production held steady in **Sudan** and eased in **South Sudan**.

Libya, exempt from official OPEC+ cuts, posted the biggest decline in December. Output fell 90 kb/d to 1.05 mb/d, after a blockade by armed groups linked with the Petroleum Facilities Guards forced three core fields to close and disrupted exports. A deal struck by the interim government allowed production to restart at the fields of El Sharara, El Feel and Wafa on 10 January. Lower average output levels are still expected this month, however, after brief pipeline maintenance and bad weather curbed supply.

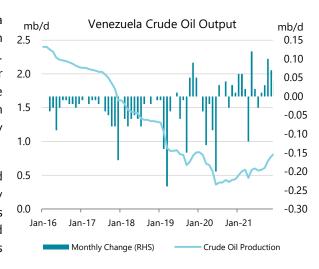
At the time of writing, oil production had recovered to around 1.2 mb/d from roughly 700 kb/d at the start of the month. The country's oil sector is suffering from a lack of funding to rebuild infrastructure that has been hit hard by a prolonged civil war and remains vulnerable to unrest and political instability. Despite these risks, Libyan output rose 790 kb/d in 2021 to reach 1.15 mb/d – the highest annual average since 2012.

For Latin American members, spared from OPEC+ curbs, Venezuela saw a further increase while **Mexico's** total oil production eased to 1.95 mb/d, down 30 kb/d m-o-m, on lower condensates and lower crude from the Ku-Maloob-Zaap production area. Supply increases of 60 kb/d are

expected through 2022 in Mexico as new fields offset existing declines; including production ramping up from Ichalkil-Pokoch, brought online in November, and Hokchi. Additionally, Eni's Area 1 second phase FPSO is still on track to start up in 2022.

Venezuela may finally have halted a five-year decline, with production in 2021 of 610 kb/d up 80 kb/d y-o-y. Further gains could be in store this year if it can sustain recent levels that have been boosted by the arrival of Iranian condensate used to dilute extra heavy Orinoco crude.

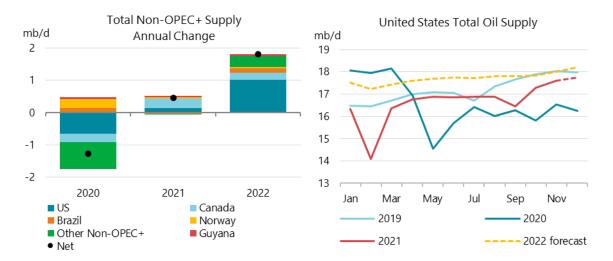
During December, Venezuela pumped 800 kb/d, up 20 kb/d. Production briefly topped 1 mb/d, but that level appears fleeting due to the country's battered infrastructure that urgently needs investment.



In Asia, **Malaysian** crude oil production edged up to 420 kb/d during December. In **Brunei**, crude supply inched higher to 90 kb/d.

Non-OPEC supply poised for growth

Volumes from non-OPEC+ countries retreated by 60 kb/d m-o-m in December as pipeline issues in Ecuador and seasonally lower biofuel supply offset gains seen in the US, Canada and Norway. At 47.4 mb/d, production plateaued around last month's high at volumes previously not seen since March 2020. Expected growth in 2022 is unchanged since last month's *Report* at 1.8 mb/d. The US, Canada and Brazil account for 75% of the gains.



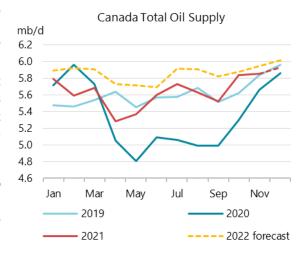
For the **United States**, we expect overall oil supplies to increase by 1 mb/d y-on-y in 2022. A strong market in 2021 encouraged US energy firms to boost activity, return capital to shareholders, and pay down debt. Those trends should continue through 2022 with majors and US independents having recently reiterated those commitments. Budgets will increase in real and nominal terms in 2022 but will be challenged by cost escalation of around 10% and

uncertainties regarding supply chain issues, labour costs and price volatility. Investment dollars will target cost- and carbon-advantaged barrels as companies focus on meeting targets for reducing the carbon intensity of their portfolios or to meet Environmental, Social and Governance (ESG) pressures. An acceleration of capital redeployment from traditional projects towards decarbonisation efforts either through acquisitions, strategic partnerships, or joint ventures would not come as a surprise.

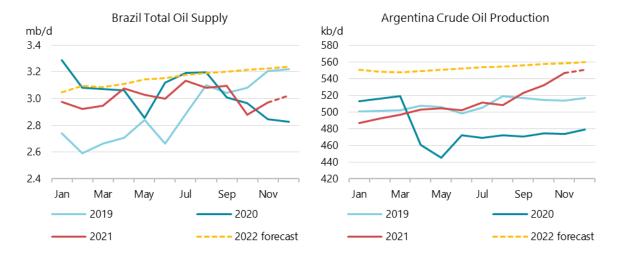
December showed another US production increase of 140 kb/d, a slower rate than previous months, bringing total liquids to 17.8 mb/d. Gains were primarily driven by the US Gulf of Mexico (GoM), US light tight oil (LTO), and natural gas liquids (NGLs). US oil volumes are forecast to exit the year 170 kb/d higher than our previous *Report*, due primarily to NGLs (+125 kb/d). In October,

the latest month for which official data is available, total oil supply jumped m-o-m by 820 kb/d to 17.3 mb/d with the majority of GoM volumes returning (+680 kb/d) after Hurricane Ida struck in late August and early September. Additional increases of 170 kb/d from NGLs were partially offset by reduced crude output in New Mexico and Texas.

In November, Canadian supply edged up 20 kb/d m-o-m on higher bitumen production, according to data from the Alberta Energy Regulator. We estimate volumes increased in December for the



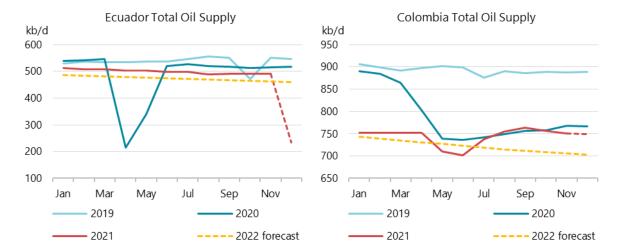
third month by 70 kb/d to 5.9 mb/d, on continued growth from Alberta and the Atlantic offshore. This would represent a return to pre-Covid highs and is in line with our 2022 forecast, which sees supply 210 kb/d higher than 2021 and above pre-pandemic levels on an annual basis. Growth is driven by incremental expansions, optimization and debottlenecking projects.



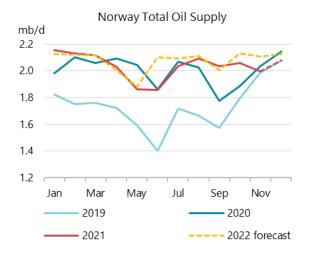
Brazilian supply stayed relatively flat at 3 mb/d in December (+50 kb/d m-o-m) according to provisional daily data from the Agencia Nacional do Petroleo (ANP). Brazil's 2022 full year production is now expected to increase y-o-y by 150 kb/d. These volumes would more than offset the decline of 30 kb/d seen in 2021. December's Transfer of Rights (TOR) area bid round generated close to \$2 billion in signing bonuses and significantly more interest than the previous

TOR round in 2019. It is estimated that the awarded blocks will allow for an increase in production of up to a 12% over the next six years.

Argentina beat our expectations in November and rose by 20 kb/d to 680 kb/d on strong LTO production. Last year saw fracking activity in the Vaca Muerta, Argentina's largest shale play, increase by 66% with state-owned YPF and Shell leading the way. We expect overall production to rise 40 kb/d y-o-y to average 680 kb/d this year from increases in the Neuquén basin offsetting other declines, leading to the strongest supply numbers since 2010.



Elsewhere in Latin America, production in **Ecuador** plunged 255 kb/d m-o-m due to flows in two pipelines being halted for most of the month on threats of erosion. They were both returned to service on 2 January according to data from Ecuadorian energy regulators. Supply is expected to remain flat this year at 470 kb/d after a 10 kb/d annual decline in 2021. Production in **Colombia** was largely unchanged in December at 750 kb/d. Output is expected to decline for the third straight year in 2022, averaging 720 kb/d. Colombia's December oil auction received bids on 30 of the 53 offered blocks with initial commitments close to \$150 million. Both the Colombian and Ecuadorian governments have stated they are seeking to boost upstream investment over the next five years.



North Sea production in December jumped by 80 kb/d m-o-m to 3.1 b/d thanks to gains from Norway. Norwegian supply looks set to exit 2021 at 2.1 mb/d, roughly on par with 2020's exit rate. Volumes are expected to rise this year by 40 kb/d, primarily driven by the Johan Sverdrup project. Aker BP announced an acquisition of Lundin Energy, creating the largest Norwegian pure play exploration and production company and only second to state-run Equinor in terms of volumes produced from Norway. This a positive sign and

may pave the way for continued future development in Norway's oil and gas sector, which has some of the lowest carbon-intensity barrels in the world.

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Oil production in **Denmark** and the **UK** meanwhile was essentially flat m-o-m in December. In a move welcomed by regulators and trade organizations, the UK government proposed more checkpoints and possible tests to assess if new licenses ensure that future oil and gas developments support the UK's net-zero transition strategy.

Global **biofuel** supplies are expected to increase in 2022 by 250 kb/d, or 9%, to 3 mb/d. Gains are driven by the US (75 kb/d) and Brazil (40 kb/d). This comes on the heels of a 110 kb/d annual gain in 2021. The 2021/2022 forecast has been at risk due to adverse weather in Brazil. The ethanol season spans two calendar years due to harvesting geographies.

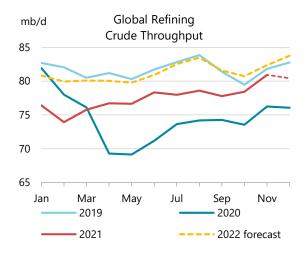
Chinese production held steady in December at around 4.1 mb/d and is projected to remain at that level for 2022. Supplies from the rest of the non-OPEC+ countries in Asia Pacific were also flat m-o-m in December. Elsewhere in non-OPEC+ Asia Pacific, supply drops in 2022 by 90 kb/d to 2.7 mb/d, driven by India (-20 kb/d), Indonesia (-30 kb/d), Thailand (-30 kb/d) and Vietnam (-20 kb/d), with 20 kb/d of growth in Australia partly offsetting the declines. India offered more details about its upcoming discovered small fields (DSF) bid round in what is expected to be the country's largest offering yet. It will include 75 tracts in a total of 32 contract areas. The previous two rounds of DSF offerings awarded over 50 blocks with \$1.76 billion in up-front commitments combined.

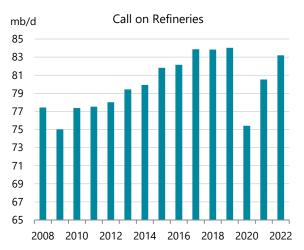
In Africa, **Ghanaian** supply rose 10 kb/d m-o-m to 170 kb/d in December and is expected to maintain those levels through 2022. **Egypt** completed a digital international bid round which generated interest from seven companies including Eni and BP, with deals to drill at least 33 wells. Additionally, Apache Corp and Egypt renegotiated and streamlined their production sharing contract (PSC) that anticipates Apache's gross oil output increasing by 10-15% this year and at an annual growth rate of 5-10% through 2025. These volumes are incorporated into this month's *Report* and partially arrest the decline expected y-o-y in Egypt to 10 kb/d for a total production of 560 kb/d for 2022.

Refining

Overview

The global refining industry ended 2021 on a high note, with both processing rates and margins improving amid continuously tight product markets in 4Q21. Latest data for November led to an upward revision of the global refinery intake by almost 1 mb/d to 80.8 mb/d, on stronger than expected activity in China, India and Europe. Runs are forecast to ease by 500 kb/d month-on-month (m-o-m) in December, due to weaker throughput in China.





| | Global Refinery Crude Throughput ¹ | | | | | | | | | | | | | |
|---------------------|---|------|------|------|---------|-------------|---------|---------|------|------|--------|--------|------|------|
| | | | | | (millio | n barrels p | er day) | | | | | | | |
| | 2019 | 2020 | 1Q21 | 2Q21 | 3Q21 | Oct-21 | Nov-21 | De c-21 | 4Q21 | 2021 | Jan-22 | Feb-22 | 1Q22 | 2022 |
| Americas | 19.1 | 16.5 | 16.5 | 18.1 | 18.2 | 17.6 | 18.1 | 18.4 | 18.0 | 17.7 | 18.1 | 17.8 | 18.0 | 18.7 |
| Europe | 12.2 | 10.7 | 10.2 | 10.7 | 11.4 | 11.4 | 11.7 | 11.4 | 11.5 | 10.9 | 11.6 | 11.4 | 11.4 | 11.4 |
| Asia Oceania | 6.8 | 5.9 | 5.8 | 5.5 | 5.8 | 5.8 | 5.9 | 6.0 | 5.9 | 5.7 | 5.9 | 5.9 | 5.7 | 5.7 |
| Total OECD | 38.0 | 33.1 | 32.5 | 34.2 | 35.4 | 34.7 | 35.7 | 35.8 | 35.4 | 34.4 | 35.6 | 35.1 | 35.2 | 35.8 |
| FSU | 6.8 | 6.4 | 6.6 | 6.6 | 6.7 | 6.7 | 7.0 | 7.0 | 6.9 | 6.7 | 7.0 | 6.9 | 7.0 | 6.9 |
| Non-OECD Europe | 0.5 | 0.4 | 0.4 | 0.5 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.5 | 0.5 | 0.5 | 0.5 |
| China | 13.0 | 13.4 | 14.1 | 14.3 | 13.7 | 13.7 | 14.4 | 13.8 | 14.0 | 14.0 | 14.1 | 14.0 | 14.1 | 14.3 |
| Other Asia | 10.3 | 9.2 | 9.5 | 9.4 | 9.2 | 9.7 | 10.2 | 10.1 | 10.0 | 9.5 | 10.3 | 10.3 | 10.3 | 10.2 |
| Latin America | 3.2 | 3.0 | 3.2 | 3.1 | 3.3 | 3.4 | 3.3 | 3.4 | 3.4 | 3.2 | 3.4 | 3.4 | 3.4 | 3.4 |
| Middle East | 7.8 | 6.9 | 7.3 | 7.3 | 7.5 | 7.9 | 7.8 | 8.0 | 7.9 | 7.5 | 7.9 | 7.6 | 7.7 | 8.1 |
| Africa | 2.0 | 1.9 | 1.8 | 1.8 | 1.8 | 1.9 | 1.9 | 1.9 | 1.9 | 1.8 | 1.9 | 1.9 | 1.9 | 1.9 |
| Total Non-OECD | 43.6 | 41.3 | 42.8 | 42.9 | 42.6 | 43.6 | 45.1 | 44.5 | 44.4 | 43.2 | 45.1 | 44.8 | 45.0 | 45.4 |
| Total | 81.6 | 74.4 | 75.3 | 77.1 | 78.0 | 78.3 | 80.8 | 80.3 | 79.8 | 77.6 | 80.7 | 79.8 | 80.2 | 81.2 |
| Year-on-year change | -0.6 | -7.2 | -3.3 | 7.3 | 4.1 | 4.9 | 4.7 | 4.4 | 4.6 | 3.2 | 4.4 | 6.0 | 4.9 | 3.7 |

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

Despite the large 1.8 mb/d quarter-on-quarter (q-o-q) growth in global throughput, refined product balances implied a draw of 1.3 mb/d in 4Q21, as runs increased from a low base in 3Q21. Refinery intake could theoretically have been higher, if not for the unusual occurrence of a global capacity decline. In 2021, close to 1.6 mb/d of global refinery capacity was permanently shut or converted into bio-refineries, while only 850 kb/d of new capacity came online. The net decline

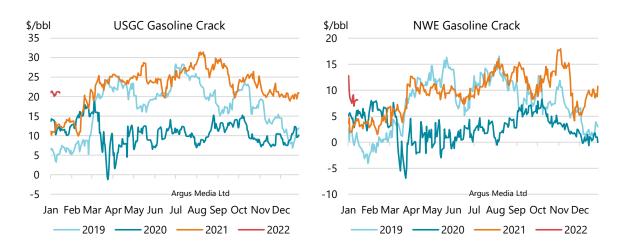
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of 730 kb/d was the first one observed in the past 30 years. This was an important factor in the performance of refinery margins, which reached multi-year highs in Singapore and Europe at the end of 2021.

While headline oil demand is forecast to grow by 3.3 mb/d this year and surpass 2019 levels, demand for refined products (excluding products supplied from non-refinery sources) will increase by 2.7 mb/d and lag 2019 levels by 850 kb/d. At the same time, 2022 refinery runs are expected to rise by 3.7 mb/d y-o-y, with some 1.2 mb/d of new capacity coming online in 2022. Product markets may switch to a product stock build mode, possibly leading to an unwinding of some of the refinery margin gains from late last year.

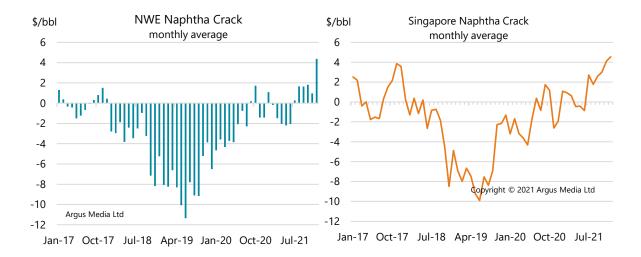
Product cracks and refinery margins

The estimated 500 kb/d m-o-m fall in refinery throughput in December contributed to stronger product cracks. Sharply lower crude prices, down \$7/bbl on average m-o-m, also led to higher product cracks. Both factors supported middle distillates and fuel oil, but light distillate were mostly driven by cyclical and structural dynamics.



For gasoline, seasonal factors dominated, pushing down US Gulf Coast and European cracks m-o-m. The \$1.05/bbl drop in USGC cracks was split equally into lower Renewable Identification Number (RINs) prices and the underlying petroleum gasoline margin. In Europe, gasoline cracks declined by a much larger \$3/bbl, but remained at record seasonal levels of \$9/bbl. In Singapore, gasoline cracks fell by just \$0.13/bbl to \$14.70/bbl, comparable with US cracks net of RVO costs.

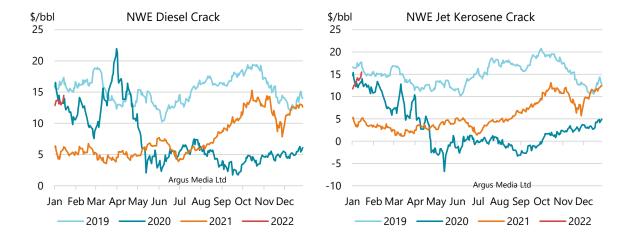
Naphtha cracks continued thriving on strong demand, high LPG prices and constrained supply from refineries. Naphtha demand in 4Q21 is estimated to have risen 445 kb/d q-o-q to 7.2 mb/d, crossing the 7 mb/d mark on a quarterly basis for the first time. LPG/ethane demand was also at record levels in 4Q21, therefore, feedstock substitution for petrochemical crackers was no longer an option. With naphtha demand almost 900 kb/d higher compared to 4Q19, and refinery runs 1.4 mb/d lower, a tight balance will continue to support cracks until refinery runs are back to prepandemic levels or naphtha use gives way to cheaper propane during the warmer months of the year.



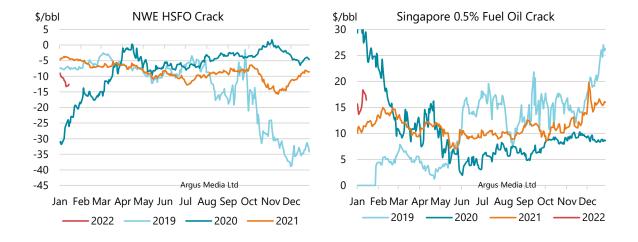
| Spot Product Prices | | | | | | | | | | | | | | |
|---------------------------|--------------|--------------|--------|----------------|--------------|------------|----------|----------|--------|--------|----------|------------|----------|-------|
| | | | | (m | onthly an | d weekly a | verages, | \$/bbl) | | | | | | |
| | | | | Dec-Nov | | | Wee | k Ending | 9 | | | | | |
| | Oct | Nov | Dec | Chg | % | 47 Da a | 04 Da a | 31 Dec | 07 Jan | 14 Jan | Oct | Nov | Dec | Chg |
| Rotterdam, Barges F | -OP | | | Cng | % | 17 Dec | 24 Dec | 31 Dec | ur Jan | | Difforon | itial to N | arth Sa | Datad |
| Gasoline EBOB oxy | 95.92 | 93.21 | 82.88 | -10.33 | -11.1 | 83.23 | 82.78 | 89.01 | 89.78 | 93.12 | 12.38 | 11.84 | 8.87 | -2.97 |
| Naphtha | 85.37 | 82.33 | 78.27 | -4.05 | -4.9 | 78.21 | 78.78 | 82.92 | 82.94 | 85.11 | 1.82 | 0.96 | 4.27 | 3.31 |
| Jet/Kerosene | 94.81 | 90.46 | 85.18 | -4.03 -5.28 | -4.9 -5.8 | 85.20 | 85.29 | 89.36 | 93.88 | 99.39 | 11.27 | 9.09 | 11.17 | 2.08 |
| ULSD 10ppm | 96.92 | 92.83 | 86.38 | -6.45 | -6.9 | 86.40 | 86.10 | 90.39 | 94.51 | 98.63 | 13.38 | 11.46 | 12.38 | 0.92 |
| Gasoil 0.1% | 95.22 | 90.67 | 84.69 | -5.98 | -6.6 | 84.80 | 84.47 | 88.85 | 93.10 | 97.25 | 11.68 | 9.30 | 10.68 | 1.38 |
| VGO 2.0% | 85.81 | 83.71 | 77.13 | -6.59 | -7.9 | 77.29 | 76.50 | 79.95 | 83.45 | 85.07 | 2.27 | 2.34 | 3.12 | 0.77 |
| Fuel Oil 0.5% | 90.22 | 86.70 | 82.84 | -3.86 | -4.5 | 82.22 | 81.94 | 87.28 | 88.47 | 94.05 | 6.68 | 5.33 | 8.83 | 3.50 |
| LSFO 1% | 82.72 | 78.61 | 74.57 | -4.05 | -5.1 | 75.49 | 74.04 | 76.90 | 79.38 | 81.46 | -0.82 | -2.76 | 0.56 | 3.32 |
| HSFO 3.5% | 74.26 | 67.40 | 64.43 | -2.96 | -4.4 | 64.58 | 64.90 | 68.53 | 70.65 | 72.57 | -9.28 | -13.97 | -9.57 | 4.40 |
| Mediterranean, FOB | | | 00 | 2.00 | ••• | 000 | 000 | 00.00 | . 0.00 | | | tial to U | | |
| Premium Unl 10 ppm | 96.59 | 91.68 | 84.94 | -6.74 | -7.4 | 85.27 | 84.51 | 89.97 | 91.84 | 94.60 | 14.66 | 11.60 | 11.86 | 0.26 |
| Naphtha | 83.83 | 80.76 | 75.50 | -5.26 | -6.5 | 74.69 | 75.74 | 80.23 | 80.78 | 83.08 | 1.90 | 0.69 | 2.43 | 1.74 |
| Jet Aviation fuel | 93.58 | 89.29 | 83.07 | -6.22 | -7.0 | 82.39 | 82.98 | 87.40 | 92.39 | 97.96 | 11.64 | 9.21 | 10.00 | 0.79 |
| ULSD 10ppm | 96.44 | 91.96 | 85.03 | -6.93 | -7.5 | 84.74 | 84.56 | 89.07 | 93.65 | 97.61 | 14.51 | 11.88 | 11.96 | 0.08 |
| Gasoil 0.1% | 95.03 | 90.64 | 83.90 | -6.74 | -7.4 | 83.61 | 83.66 | 88.19 | 92.49 | 96.93 | 13.09 | 10.57 | 10.83 | 0.26 |
| LSFO 1% | 84.08 | 80.30 | 76.33 | -3.97 | -4.9 | 77.08 | 76.23 | 79.47 | 82.12 | 84.10 | 2.15 | 0.23 | 3.26 | 3.03 |
| HSFO 3.5% | 73.08 | 66.01 | 62.67 | -3.34 | -5.1 | 62.53 | 63.28 | 66.95 | 69.08 | 70.96 | -8.86 | -14.07 | -10.40 | 3.67 |
| US Gulf, FOB Pipeline | • | | | | | | | | | | Differen | tial to W | /TI Hous | ton |
| Super Unleaded | 106.50 | 101.25 | 93.14 | -8.11 | -8.0 | 92.11 | 93.64 | 98.40 | 100.19 | 104.00 | 24.40 | 21.33 | 20.28 | -1.05 |
| Jet/Kerosene | 96.22 | 92.43 | 87.63 | -4.80 | -5.2 | 87.25 | 88.14 | 92.46 | 95.73 | 101.99 | 14.12 | 12.51 | 14.77 | 2.26 |
| ULSD 10ppm | 103.07 | 97.70 | 91.78 | -5.92 | -6.1 | 91.03 | 92.88 | 96.92 | 100.03 | 105.82 | 20.96 | 17.78 | 18.92 | 1.14 |
| Heating Oil | 92.43 | 86.21 | 79.14 | -7.07 | -8.2 | 78.61 | 80.03 | 84.36 | 87.76 | 93.77 | 10.33 | 6.29 | 6.29 | 0.00 |
| No. 6 3%* | 72.89 | 66.25 | 63.04 | -3.21 | -4.8 | 62.96 | 64.36 | 67.95 | 70.10 | 73.32 | -9.22 | -13.67 | -9.81 | 3.85 |
| Singapore, FOB Card | ioes | | | | | | | | | | Differen | tial to D | ubai | |
| Premium Unleaded | 98.48 | 95.01 | 87.92 | -7.09 | -7.5 | 88.87 | 87.72 | 92.53 | 93.51 | 95.77 | 17.03 | 14.80 | 14.67 | -0.13 |
| Naphtha | 84.45 | 84.21 | 77.82 | -6.39 | -7.6 | 78.70 | 76.76 | 81.79 | 80.86 | 83.21 | 2.99 | 4.00 | 4.57 | 0.57 |
| Jet/Kerosene | 93.09 | 89.09 | 83.47 | -5.62 | -6.3 | 84.64 | 82.68 | 87.18 | 88.63 | 94.47 | 11.64 | 8.88 | 10.22 | 1.34 |
| Gasoil 0.001% | 95.49 | 91.49 | 85.86 | -5.63 | -6.2 | 86.66 | 85.01 | 90.69 | 92.53 | 97.21 | 14.04 | 11.28 | 12.61 | 1.33 |
| Fuel Oil 0.5% | 91.94 | 92.51 | 89.50 | -3.01 | -3.3 | 89.25 | 88.16 | 94.28 | 92.88 | 98.74 | 10.48 | 12.30 | 16.25 | 3.95 |
| HSFO 180 CST | 77.52 | 71.15 | 65.86 | -5.28 | -7.4 | 66.07 | 65.42 | 70.26 | 71.13 | 73.53 | -3.93 | -9.07 | -7.39 | 1.68 |
| HSFO 380 CST 4% | 76.02 | 69.87 | 64.79 | -5.08 | -7.3 | 65.07 | 64.50 | 69.25 | 69.13 | 71.93 | -5.43 | -10.34 | -8.46 | 1.88 |
| Copyright © 2021 Argus Me | edia Ltd - A | Il rights re | served | * Wa | terbo rne | | | | | | | | | |

In Europe and the US, jet fuel cracks increased by around \$2/bbl, roughly twice the gains for diesel that only averaged \$1/bbl. In Singapore, cracks for both fuels rose by \$1.33/bbl. These small gains, when compared to larger falls in crude prices, show a relatively less constrained supply-demand balance for middle distillates in December, when the initial spread of Omicron reintroduced travel restrictions. From a product supply perspective, the 2 mb/d increase in 4Q21 refinery runs would have helped largely cover incremental middle distillates demand of about 1.1 mb/d.

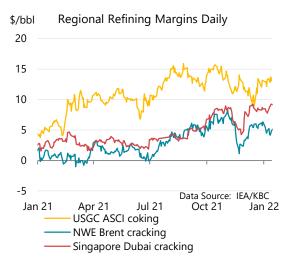
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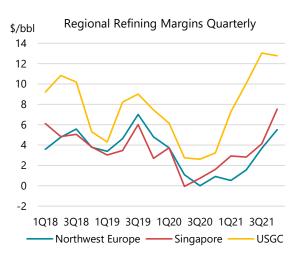


Higher fuel oil cracks were also mostly a reaction to lower crude prices and higher demand for both bunkers for scrubber-fitted vessels and for power generation. High sulphur fuel oil cracks in Europe rose \$4.50/bbl and \$2/bbl in Singapore. Cracks for 0.5% sulphur marine fuel oil gained \$4/bbl to \$16.20/bbl, the highest product crack level in Singapore.



Refinery margin trends diverged, with gasoline-exposed US margins falling m-o-m, while distillates-oriented European and Singapore margins rose. Simple margins, dominated by straight-run naphtha and fuel oil, registered the largest increases. In Singapore, complex margins hit their highest level since 2016. Average refinery margins in 4Q21 reached multi-year highs in Singapore and Europe, but fell in the US due to seasonally lower gasoline cracks.





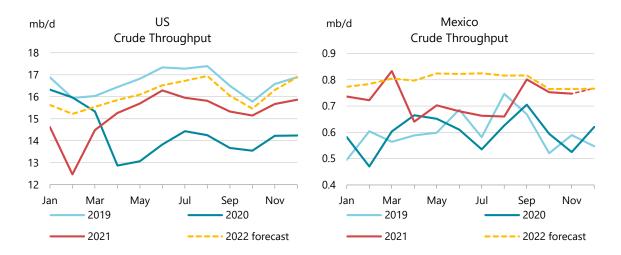
| | IEA/KBC Global Indicator Refining Margins ¹ (\$/bbl) | | | | | | | | | | |
|----------------------------|---|--------|--------------|--------|----------|---------|--------|--------|-------------|---------|--------|
| | | | M onthly A v | erage | | Change | | Averag | je for week | ending: | |
| | Sep 21 | Oct 21 | Nov 21 | Dec 21 | | Dec-Nov | 17 Dec | 24 Dec | 31 Dec | 07 Jan | 14 Jan |
| NW Europe | | | | | | | | | | | |
| Brent (Cracking) | 5.11 | 6.44 | 5.01 | 5.11 | 1 | 0.09 | 5.66 | 5.61 | 6.08 | 4.92 | 4.61 |
| Urals (Cracking) | 5.84 | 7.23 | 4.67 | 5.14 | 1 | 0.47 | 5.47 | 5.99 | 6.68 | 5.42 | 4.37 |
| Brent (Hydroskimming) | 2.60 | 3.22 | 1.64 | 2.89 | 1 | 1.25 | 3.58 | 3.29 | 3.15 | 2.09 | 1.37 |
| Urals (Hydroskimming) | 1.23 | 1.97 | -1.42 | 0.53 | 1 | 1.95 | 0.82 | 1.54 | 1.80 | 0.57 | -0.90 |
| Mediterranean | | | | | | | | | | | |
| Es Sider (Cracking) | 6.65 | 7.43 | 4.84 | 6.52 | 1 | 1.67 | 6.89 | 6.79 | 7.02 | 6.57 | 5.91 |
| Urals (Cracking) | 5.38 | 6.71 | 3.91 | 5.31 | 1 | 1.40 | 5.72 | 6.18 | 6.29 | 5.74 | 4.89 |
| Es Sider (Hydroskimming) | 4.88 | 4.92 | 2.44 | 4.58 | 1 | 2.14 | 5.08 | 4.87 | 4.85 | 4.19 | 3.10 |
| Urals (Hydroskimming) | 0.76 | 1.09 | -2.41 | -0.31 | 1 | 2.10 | 0.02 | 0.76 | 0.68 | -0.25 | -1.62 |
| US Gulf Coast | | | | | | | | | | | |
| Mars (Cracking) | 8.10 | 9.51 | 6.63 | 6.04 | Ψ | -0.60 | 4.73 | 6.90 | 7.86 | 7.81 | 7.85 |
| 50/50 HLS/LLS (Coking) | 16.25 | 17.48 | 14.87 | 14.18 | Ψ | -0.68 | 12.81 | 14.92 | 15.35 | 15.09 | 15.65 |
| 50/50 Maya/Mars (Coking) | 11.22 | 12.12 | 9.73 | 10.70 | 1 | 0.96 | 9.81 | 11.35 | 11.95 | 11.50 | 11.91 |
| ASCI (Coking) | 12.91 | 14.64 | 12.46 | 11.21 | Ψ | -1.25 | 9.84 | 11.80 | 12.59 | 12.81 | 13.19 |
| US Midwest | | | | | | | | | | | |
| 30/70 WCS/Bakken (Cracking | 14.03 | 13.06 | 10.59 | 10.65 | 1 | 0.06 | 10.24 | 9.88 | 10.14 | 8.87 | 7.60 |
| Bakken (Cracking) | 16.55 | 14.78 | 10.98 | 11.45 | 1 | 0.47 | 10.70 | 10.67 | 11.19 | 10.42 | 8.55 |
| WTI (Coking) | 17.29 | 15.58 | 11.14 | 11.87 | 1 | 0.73 | 11.15 | 11.26 | 11.67 | 11.94 | 10.81 |
| 30/70 WCS/Bakken (Coking) | 17.12 | 16.08 | 13.84 | 13.59 | Ψ | -0.25 | 12.91 | 12.30 | 12.66 | 11.29 | 9.98 |
| Singapore | | | | | | | | | | | |
| Dubai (Hydroskimming) | 0.03 | 0.30 | -2.74 | -1.12 | 1 | 1.61 | -0.49 | -0.83 | -1.00 | -1.49 | -1.29 |
| Tapis (Hydroskimming) | 2.25 | 3.50 | 2.40 | 3.45 | 1 | 1.05 | 4.52 | 3.58 | 4.64 | 1.64 | 1.72 |
| Dubai (Hydrocracking) | 5.18 | 7.78 | 6.58 | 8.24 | 1 | 1.66 | 8.93 | 8.30 | 8.47 | 8.08 | 8.93 |
| Tapis (Hydrocracking) | 2.22 | 4.70 | 2.91 | 3.23 | 1 | 0.32 | 4.52 | 3.53 | 4.29 | 1.80 | 1.34 |

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.

Source: IEA, KBC Advanced Technologies (KBC)

Regional refining developments

US refinery throughput rose 200 kb/d in December, to 15.8 mb/d, slightly less than expected. Shell's Norco refinery restarted in the second half of the month, but Exxon's 550 kb/d Baytown refinery suffered a serious fire in late December and has been operating at reduced rates since. Seasonal maintenance will cut runs in 1Q22. We have not made provisions for a potential repeat of the 2021 Arctic freeze this year. In February 2021, US runs fell 2.2 mb/d m-o-m to 12.4 mb/d, even lower than in April 2020, with winter storm Uri paralysing Midwest and Gulf Coast refining systems.

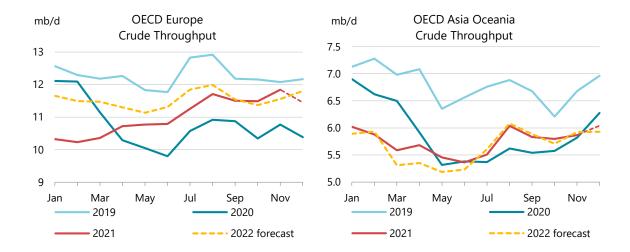


Mexican throughput fell slightly m-o-m in November to below 740 kb/d. Pemex announced that it will stop exporting its heavy Maya crude in 2023, redirecting the volumes to its refining system, which also includes the 275 kb/d Deer Park refinery in Houston, purchased from Shell last year.

The 200 kb/d Limetree Bay refinery in the **US Virgin Islands** was sold at auction as part of a bankruptcy procedure. The former Hovensa refinery was shut down in 2012 but was restarted at one-third of its capacity at end-2020 and operated for just six months before being closed again on the order of the US Environmental Protection Agency (EPA). The winning bid came from a bunkering company that intends to double the operating capacity. We have not assumed a restart of the refinery this year, given the amount of work that needs to be completed to meet the conditions set by the EPA.

Finalised data for **European** throughput in October showed rare upward revisions, with intake 260 kb/d higher. November preliminary data were also stronger than our forecast, with regional runs up 360 kb/d m-o-m. Based on indications for December for a smaller group of countries, regional runs likely fell m-o-m. Personnel at TotalEnergies refineries in France resorted to strikes in mid-January, but we do not expect a material impact on processing rates.

In contrast to Europe, OECD Asia data for October and November came in lower than preliminary numbers. In **Japan**, October throughput fell 120 kb/d m-o-m to 2.5 mb/d, instead of a previously estimated increase, and November runs were only back to September levels. Nevertheless, weekly data for December support an estimate of a 260 kb/d increase m-o-m. **Korean** throughput in November was at 2.7 mb/d, unchanged from October.



| | Refiner | ry Crude | _ | hput and (million barrels | | on in OE | CD Coun | tries | | |
|---------------------------------|---------|----------|--------|------------------------------|--------|----------|---------|---------|-----------|----------|
| | | | | | | | Chang | ge from | Utilisati | ion rate |
| | Jun 21 | Jul 21 | Aug 21 | Sep 21 | Oct 21 | Nov 21 | Oct 21 | Nov 20 | Nov 21 | Nov 20 |
| US ¹ | 16.19 | 15.85 | 15.72 | 15.23 | 15.05 | 15.57 | 0.52 | 1.45 | 87% | 77% |
| Canada | 1.71 | 1.71 | 1.73 | 1.75 | 1.59 | 1.70 | 0.11 | 0.02 | 85% | 84% |
| Chile | 0.18 | 0.17 | 0.21 | 0.20 | 0.18 | 0.14 | -0.05 | -0.03 | 61% | 84% |
| Mexico | 0.67 | 0.65 | 0.65 | 0.79 | 0.74 | 0.74 | -0.01 | 0.22 | 45% | 74% |
| OECD Americas ¹ | 18.75 | 18.39 | 18.31 | 17.97 | 17.56 | 18.15 | 0.59 | 1.59 | 83% | 74% |
| France | 0.72 | 0.79 | 0.82 | 0.75 | 0.72 | 0.79 | 0.07 | 0.04 | 69% | 60% |
| Germany | 1.58 | 1.71 | 1.81 | 1.73 | 1.90 | 1.80 | -0.10 | 0.12 | 89% | 83% |
| Italy | 1.31 | 1.21 | 1.26 | 1.33 | 1.38 | 1.39 | 0.00 | 0.28 | 86% | 63% |
| Netherlands | 0.98 | 0.99 | 1.01 | 1.04 | 1.13 | 1.11 | -0.01 | 0.04 | 92% | 89% |
| Spain | 1.04 | 1.17 | 1.24 | 1.22 | 1.12 | 1.21 | 0.08 | 0.09 | 85% | 79% |
| United Kingdom | 0.96 | 1.01 | 1.03 | 0.94 | 0.91 | 1.04 | 0.13 | 0.17 | 87% | 72% |
| Other OECD Europe ² | 4.10 | 4.28 | 4.44 | 4.39 | 4.23 | 4.41 | 0.18 | 0.32 | 87% | 80% |
| OECD Europe | 10.69 | 11.16 | 11.61 | 11.41 | 11.39 | 11.75 | 0.36 | 1.07 | 86% | 76% |
| Japan | 2.12 | 2.25 | 2.67 | 2.62 | 2.50 | 2.61 | 0.11 | 0.13 | 76% | 72% |
| South Korea | 2.56 | 2.63 | 2.76 | 2.65 | 2.72 | 2.71 | -0.01 | 0.15 | 77% | 73% |
| Other Asia Oceania ³ | 0.67 | 0.62 | 0.61 | 0.56 | 0.56 | 0.53 | -0.03 | -0.24 | 82% | 88% |
| OECD Asia Oceania | 5.35 | 5.50 | 6.03 | 5.82 | 5.79 | 5.86 | 0.07 | 0.05 | 77% | 74% |
| OECD Total | 34.80 | 35.04 | 35.96 | 35.20 | 34.74 | 35.75 | 1.01 | 2.71 | 83% | 75% |

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

Chinese reported refinery intake in November surged well past the expected 14 mb/d mark. Official data show throughput up 730 kb/d m-o-m to 14.4 mb/d, the second-highest level ever reported. The y-o-y declines that started in July finally reversed, to a gain of 260 kb/d. In December, official numbers showed a steep 650 kb/d m-o-m fall in runs to 13.8 mb/d, down 340 kb/d y-o-y. For 2021 as a whole, refinery intake rose 625 kb/d y-o-y.

Half of China's monthly increase in November came from the Zhejiang province, home to the largest independent petrochemical refinery, Rongsheng's 800 kb/d site. The province's crude throughput reached a record high of 1.3 mb/d in November (data by province for December will be reported at end-January). With the rest of the gains coming mostly from Hebei, Shandong and Liaoning provinces, the independent refining sector was clearly behind the large increase in activity, despite state-owned majors officially announcing higher throughputs to increase domestic product supply. Chinese independents effectively act as the swing refiners, and the

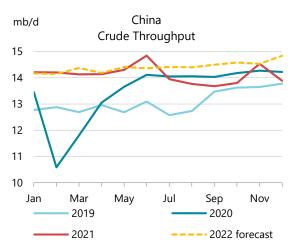
² Includes Lithuania

³ Includes Israel

government has several tools to set the direction, from crude imports quotas to fiscal and administrative controls.

In November, despite crude imports rebounding by 1.3 mb/d m-o-m, the implied balance still indicated a 700 kb/d draw. The December balance, with lower crude runs and higher imports, implied builds of a similar size. Nevertheless, crude oil imports fell overall in 2021 by 540 kb/d

y-o-y, and the implied balance for the year shows an average draw of 45 kb/d, the first annual decline of stocks observed in official statistics. The first batch of crude import quotas for 2022 sets the stage for tighter feedstock supply to independent refiners. It was 10% below the first round of allocations in 2021, equivalent to a 200 kb/d annual reduction. Quotas were issued to 36 refiners, down from 44 last year. Three refineries that shutdown their processing capacity in exchange for a stake in the proposed 400 kb/d



Yulong refinery, and five refineries implicated in government investigations in 2021, were not awarded any quotas.

Product export quotas, which, in contrast to crude import allocations, are issued to mainly state-owned refiners, were reduced in size by a substantial 55% versus the first batch issued in 2021. In annualised terms, this is a reduction of about 400 kb/d, mostly concerning transport fuels (diesel, kerosene and gasoline). A relatively small volumetric increase (of about 30 kb/d in annualised terms) of VLSFO exports indicate China intends to grow its bunkering operations in the country's main export ports (deliveries of international marine bunkers count as exports)

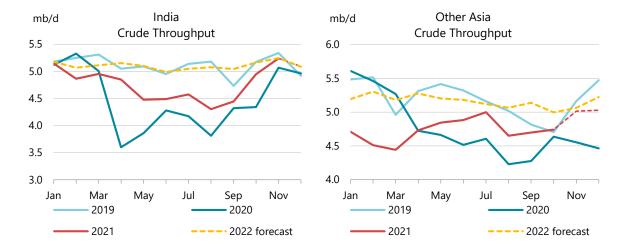
With the headwinds from lower crude imports and tighter product export quotas, Chinese refining activity growth should decelerate from the heady growth of 630 kb/d on average in recent years, to just under 300 kb/d in 2022.

Lower Chinese throughput growth and a reduction in transport fuels exports, if combined with a steady demand recovery, will provide a boost to Asian refiners that have been exposed to intense competition from China for several years. Over the last two years, almost 900 kb/d of refining capacity in Asia, excluding China has been either shut or programmed to permanently close before end-2022.

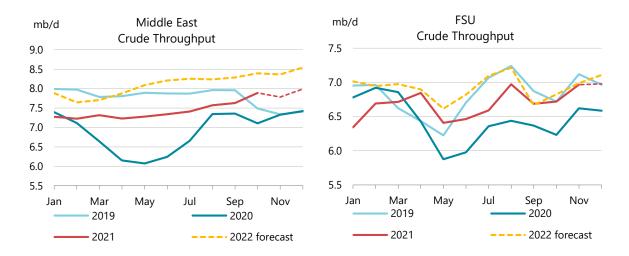
India, which has a structural excess of refining capacity, has perhaps already started seeing the benefits of the more subdued Chinese competition. November runs surged by another 300 kb/d to 5.2 mb/d, up almost 1 mb/d from this year's low point in August. Overall, in 2021, Indian refining activity increased more than demand. Refinery throughputs recovered almost half of the 620 kb/d loss in 2020, but demand for refined products recovered only by one third. In 2022, demand is expected to slightly surpass the pre-pandemic peak of 2019, with refinery runs also back to 2019 levels.

The recovery in the rest of developing Asia is slower. After a 900 kb/d decline in 2020, demand for refined products increased by 360 kb/d in 2021, and is forecast to gain another 480 kb/d in 2022. But it will remain below the peak registered in 2018. This group of countries combined is about 2 mb/d short of refined products, but its refinery capacity utilisation suffers from relatively

inefficient operations, logistics costs, quality mismatch, among other factors. Nevertheless, with less competition in the regional markets, throughputs could recover almost fully to 2019 levels if Malaysia's RAPID refinery manages to restart this year. The latest data indicate that a fall of refining activity last year in **Indonesia** and **Malaysia** was more than offset by increases in **Singapore**, **Thailand** and **Vietnam**.

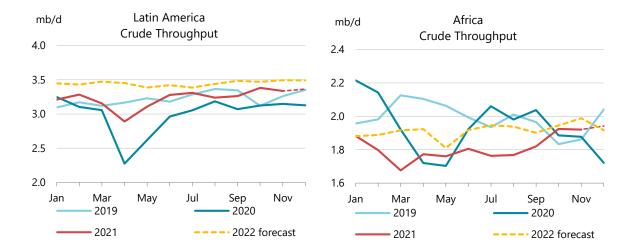


Middle East throughput data for October were generally stronger than expectations. **Saudi** runs climbed 120 kb/d m-o-m to 2.6 mb/d, its highest since February 2019. **Iraqi** throughput rose 80 kb/d m-o-m to 550 kb/d, but remained well below the 700 kb/d target set earlier for 2021. Despite this, there has been a flurry of announcements regarding new downstream projects in the country, both for greenfield sites and repairs and expansions at existing units. In **Iran**, the head of the refining segment of the National Iranian Oil Company said the country's crude and condensate runs reached almost 2.2 mb/d last year, which would imply close to 100% utilisation rates. It is not clear if this was an average figure for the period, or the highest rate observed over that period. Iran last reported data in 2018, showing 92% average utilisation rates. **UAE**'s Abu Dhabi National Oil Company announced that it permanently shut the 85 kb/d Umm al-Nar refinery last December. The potential closure was first mentioned in 2019 but timing was not known.



Russia reported December runs flat from November's 5.8 mb/d. In 2021, runs rose 240 kb/d y-o-y, recovering most of the 320 kb/d fall in 2020. **Kazakhstan** refinery throughputs rebounded 70 kb/d

m-o-m in November as the Pavlodar refinery came back from maintenance. The protests in January also affected the three cities hosting the country's major refineries, but no damage or operational issues have been reported so far. LPG price increases were widely acknowledged as the formal cause for the protests. In 2021, Kazakh crude throughput reached record high levels, but product deliveries to the domestic market were periodically strained, possibly due to smuggling to neighbouring countries where prices are higher. Refiners supply little LPG, with most of it coming from natural gas fractionation. The production of natural gas liquids is predominantly in the west of the country, from where it is easier to export the liquids in raw or fractionated form than to deliver to the more densely populated eastern part of the country.

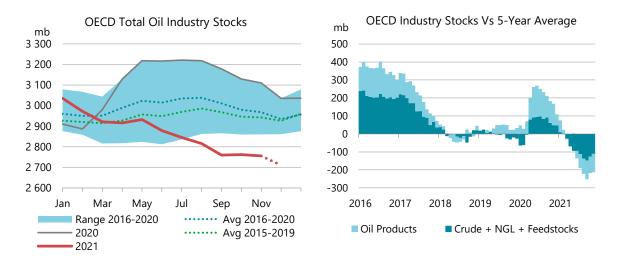


In Latin America, November throughput was estimated lower m-o-m due to a fall in **Brazilian** intake. Estimates for **Venezuelan** runs for January onwards have been revised up by 30-40 kb/d to reflect higher reported product output. In Africa, we have pushed back the start-up of the Lekki refinery in **Nigeria** to 2023 from 4Q22.

Stocks

Overview

OECD industry stocks declined to seven-year lows in November, down 6.1 mb month-on-month (m-o-m) and a steep 354 mb year-on-year (y-o-y) to 2 756 mb. Rising crude and gasoline stocks were partly offset by hefty seasonal declines in other products across the regions. OECD industry stocks were last reported at comparable levels in 1Q15. Industry stocks in November covered 60.9 days of forward demand, 1.3 days lower than the latest five-year average. Preliminary data for December show OECD stocks plunged by a further 45.2 mb. While December typically has the highest monthly stock draws, the latest decline was 35% more than normal.



In November, OECD crude stocks jumped by 12 mb, well above the average of 1.1 mb, to close the month at 1 050 mb. OECD Europe led the way with a counter-seasonal 16.7 mb increase. By contrast, crude stocks in the Americas fell counter-seasonally by 1.6 mb m-o-m. In addition, Asia Pacific crude volumes drew 3 mb, largely in line with historical trends.

Product inventories in the OECD drew by a large 17.8 mb (593 kb/d) in November, more than double the normal draw of 8.8 mb. Product stocks were down across all OECD regions. European stocks dropped by 7.2 mb, Asia Pacific was down by 6.4 mb, while the Americas declined by 4.2 mb. Total gasoline stocks grew by 3 mb, much less than the usual build of 9 mb. Middle distillates and other refined products fell cyclically by 8.6 mb and 8.9 mb, respectively. Notably, fuel oil drew by 3.4 mb, when they typically build 9 mb. Days of forward demand fell 0.3 days in November to 31.1 days.

Preliminary data for December show total OECD inventories plunged by a further 45.2 mb. US stocks declined by a large 29.8 mb. In addition, Europe and Japan both posted further draws, down by 10.5 mb and 4.9 mb, respectively. US crude and NGL inventories fell by a large 22.2 mb, while product stocks decreased by 7.6 mb. Europe showed a similar trend, with crude inventories down 3.8 mb m-o-m and product stocks 6.7 mb lower. Oil stocks in Japan eased by 4.9 mb, compared with a more normal decline of 13.1 mb. Crude, including NGLs, fell by 3.8 mb, while product stocks declined by 1.1 mb.

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| Preli | minary | y Indus | _ | | nge in N | | er 2021 | and F | | | | 4 |
|-------------------------|--------|----------|----------|----------|---------------|-------------|--------------|-------|------|-------------|--------------|-------|
| | | | NOV | ember 20 | 021 (prelimir | nary) | | | r | ourth Qu | arter 202 | ı |
| | | (million | barrels) | | (1 | 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 | -1.6 | 16.7 | -3.0 | 12.0 | -0.1 | 0.6 | -0.1 | 0.4 | -0.3 | -0.5 | -0.2 | -1.0 |
| Gasoline | 4.6 | -0.4 | -1.1 | 3.0 | 0.2 | 0.0 | 0.0 | 0.1 | -0.1 | -0.1 | 0.0 | -0.2 |
| Middle Distillates | -2.5 | -5.2 | -0.9 | -8.6 | -0.1 | -0.2 | 0.0 | -0.3 | -0.1 | -0.3 | 0.1 | -0.3 |
| Residual Fuel Oil | -2.2 | -0.5 | -0.7 | -3.4 | -0.1 | 0.0 | 0.0 | -0.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| Other Products | -4.1 | -1.0 | -3.7 | -8.9 | -0.1 | 0.0 | -0.1 | -0.3 | 0.3 | 0.0 | 0.1 | 0.4 |
| Total Products | -4.2 | -7.2 | -6.4 | -17.8 | -0.1 | -0.2 | -0.2 | -0.6 | 0.0 | -0.4 | 0.2 | -0.2 |
| Other Oils ¹ | -2.4 | 1.6 | 0.4 | -0.3 | -0.1 | 0.1 | 0.0 | 0.0 | 0.0 | -0.1 | 0.0 | -0.1 |
| Total Oil | -8.2 | 11.1 | -9.0 | -6.1 | -0.3 | 0.4 | -0.3 | -0.2 | -0.3 | -0.9 | 0.0 | -1.3 |

¹ Other oils includes NGLs, feedstocks and other hydrocarbons.

OECD stock data for the month of October were revised up by 24.7 mb on the receipt of more complete data. The largest adjustment was for Japan, adding 9.5 mb to the crude stock total. Crude volumes in the Americas were also revised higher, by 8.1 mb. Conversely, crude stocks in the OECD Europe were lowered by 8.3 mb. Changes to product stock data were made across all regions, totalling 17.4 mb. Product inventories were revised higher by 9.6 mb in Europe, 7.6 mb in the Americas, but just 0.3 mb in Asia Oceania.

| 1 | Revision | s versus | | ber 2021 n barrels) | Oil Mar | ket Repo | ort | |
|-------------------------|----------|----------|--------|------------------------|---------|----------|--------|--------|
| | Ame | ricas | Euro | оре | Asia O | ceania | OE | CD |
| | Sep-21 | Oct-21 | Sep-21 | Oct-21 | Sep-21 | Oct-21 | Sep-21 | Oct-21 |
| Crude Oil | -3.0 | 8.1 | 0.0 | -8.3 | 0.0 | 9.5 | -2.9 | 9.3 |
| Gasoline | 0.0 | 1.8 | 3.3 | 6.1 | 0.2 | -0.6 | 3.5 | 7.4 |
| Middle Distillates | 0.0 | 4.7 | 1.9 | 2.5 | 0.1 | 1.0 | 2.0 | 8.2 |
| Residual Fuel Oil | 0.0 | -0.3 | -1.0 | -1.5 | 0.0 | -0.3 | -1.0 | -2.1 |
| Other Products | 0.0 | 1.4 | 0.1 | 2.4 | 0.0 | 0.1 | 0.1 | 3.9 |
| Total Products | 0.0 | 7.6 | 4.4 | 9.6 | 0.3 | 0.3 | 4.7 | 17.4 |
| Other Oils ¹ | 0.0 | -2.3 | -0.8 | 0.3 | 0.0 | -0.1 | -0.8 | -2.0 |
| Total Oil | -3.0 | 13.4 | 3.6 | 1.5 | 0.3 | 9.8 | 0.9 | 24.7 |

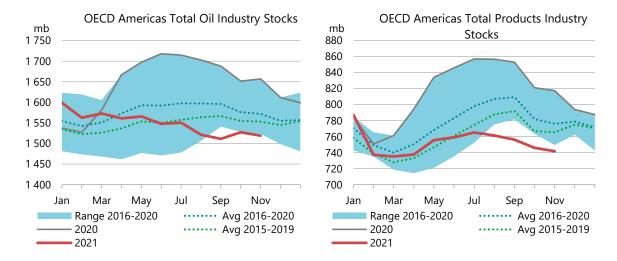
¹ Other oils includes NGLs, feedstocks and other hydrocarbons.

Recent OECD industry stock changes

OECD Americas

Industry stocks in the OECD Americas fell by 8.2 mb in November, double the normal seasonal draw. Inventories were pegged at 1 519 mb, 138 mb less than the prior year. Crude stocks declined by 1.6 mb, versus the typical 5.2 mb build. Crude inventories were drawn down as US refinery runs increased (+524 kb/d m-o-m) and crude exports rose (+181 kb/d m-o-m).

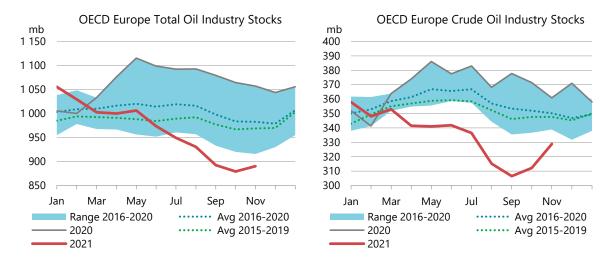
Regional product inventories drew 4.2 mb, just shy of the annual average (5.8 mb). Gasoline stocks rose 4.6 mb, in line with the typical seasonal build. However, gains were offset by declines in middle distillates (-2.5 mb) and fuel oil (-2.2 mb), both falling counter-seasonally. In addition, other refined products, including LPG and ethane, fell by only 4.1 mb, a third of the normal drop of 15.3 mb.



Weekly data from the US Energy Information Administration (EIA) show stocks plunging by another 29.8 mb in December. Crude inventories, including NGLs, drew 22.2 mb, while total product stocks declined by 7.6 mb. US gasoline stocks surged by 15.1 mb, still in line with the seasonal trend. However, any gains in gasoline stocks were offset by a sharp decline in other refined products (-21.3 mb).

OECD Europe

Industry stocks in OECD Europe soared by 11.1 mb in November, in contrast to the normal seasonal decline of 1.1 mb. Stock builds were driven by crude inventories that rose 16.7 mb, to 328.8 mb (versus a typical decline of 1.8 mb) and by increases in NGLs of 1.6 mb (versus a normal 0.1 mb draw). The increase was led by the Netherlands adding 11.6 mb, significantly more than their typical 1.1 mb build. In addition, stocks in Italy and Germany rose by 4.4 mb and 2.8 mb, respectively, partly offset by declines in the UK (-1.5 mb) and France (-0.6 mb).

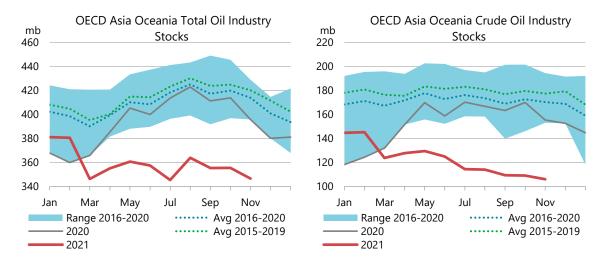


Product stocks fell counter-seasonally by 7.2 mb (versus +typical 0.5 mb normally). Product inventories in November dipped to a record low of 487 mb. Regional trends across the countries show 72% of product draws in November were in middle distillates (-5.2 mb). Declines were led by Portugal (-3.5 mb), Sweden (-2.4 mb), Belgium (-1.6 mb), Italy (-1.3 mb) and Finland (-1.2 mb), offset by increases from Poland (+1.4 mb), Greece (+1.4 mb), and France (+1.1 mb).

Preliminary data for Europe from *Euroilstock* shows overall inventories in December drew by 10.5 mb, with crude down 3.8 mb and products 6.7 mb lower. Crude stocks in France and Portugal each fell by 3.3 mb, while German stocks decreased by 1.8 mb. This was offset by a 3.3 mb build of crude volumes in Italy, (likely a result of the Livorno Refinery explosion). The remaining countries partially offset the draw by adding 1.3 mb. Product stocks fell 6.7 mb, with decreases in middle distillates amounting to 5 mb. Additionally, gasoline stocks fell by 1.1 mb and naphtha down 1.1 mb. Fuel oil stocks held largely steady.

OECD Asia Oceania

OECD Pacific Asia industry stocks declined by 9 mb in November, slightly more than the usual draw of 6 mb. Among the three OECD regions, the Asia Pacific has the lowest industry stock levels relative to historical levels. Crude stocks fell by 3 mb, compared with the normal 2.3 mb decline. Crude stocks stood at 106 mb, a steep 64.3 mb below the 2016-2020 average. Regional crude stocks were at their lowest levels since 2003.



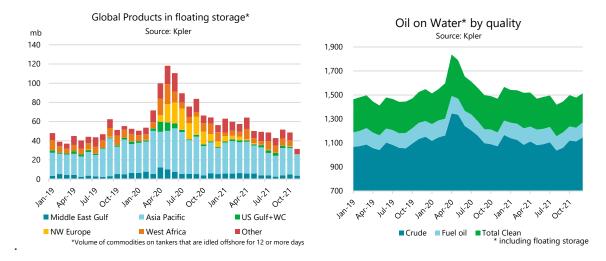
Product stocks fell 6.4 mb, to 179 mb by end-November, when they normally trend down 3.5 mb. In terms of forward demand, they covered 22.1 days, down 1.3 days from the prior month. Japanese product stocks drew by 4 mb, while inventories in Korea decreased by 2.4 mb.

Preliminary data from the Petroleum Association of Japan show crude and NGL stocks fell by 3.8 mb in December, in line with the seasonal trend. Product stocks dropped 1.1 mb, compared with a more normal decline of 3.8 mb.

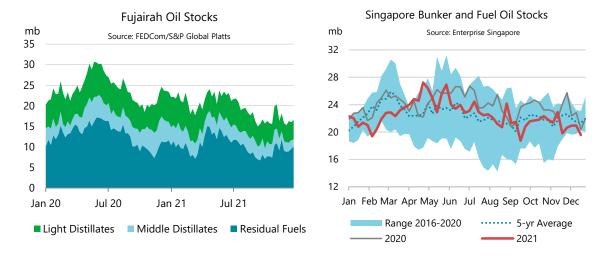
Other stock developments

Volumes of oil on the water (including floating storage), increased by 35.6 mb in December to 1515 mb, according to *Kpler*. The increase was due to a swell in crude oil, up by 33.2 mb, while total products added a further 2.4 mb.

Crude and condensate held in floating storage in December decreased by a 5.9 mb, with overall crude volumes in floating storage at 114.2 mb. At the same time, products in short-term floating storage decreased by 2 mb, to close end-December at 37.2 mb.



In Fujairah, independent product stocks eased in December by 2.9 mb according to data from *FEDCom* and *S&P Global Platts*. Middle distillates led the decline (-1.8 mb), followed by light distillates (-1.0 mb) and residual fuel oil (-0.2 mb).



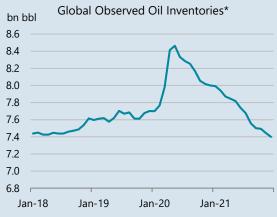
Independent product stocks in Singapore, the world's largest bunkering hub, fell by 0.5 mb in December, according to data from *Enterprise Singapore*. Residual fuel oil inventories led the way with a 0.3 mb reduction. Middle distillate stocks also drew by 0.1 mb along with light distillate stocks down by 0.1 mb.

Total oil stocks in 16 non-OECD economies reported to the *JODI-Oil* database drew 1.8 mb m-o-m in October, led by a decrease in oil products. Oil product stocks fell by 5.6 mb in total, led by Chinese Taipei (-2.9 mb), Saudi Arabia (-0.9 mb), Bulgaria (-1.4 mb) and India (-2.8 mb), with remaining countries adding 2.5 mb. Crude and NGL stocks built by 3.7 mb with notable gains in Chinese Taipei (4.1 mb) and Nigeria (2.6 mb).

Box 2. Global observed oil stocks plunge by 600 mb in 2021

Preliminary data available to date show global observable oil stocks drew by a massive 1.66 mb/d on average during 2021, more than reversing the 920 kb/d build in 2020. At around 7.4 billion barrels, oil stocks at end-December 2021 were just over 1 billion barrels lower than their May-2020 peak and well below pre-pandemic levels.

These changes were mostly reflected in OECD industry and government stocks, which fell by 1.06 mb/d y-o-y, following a 390 kb/d build in 2020. Oil on water volumes, which include crude oil and products in transit and floating storage, declined by 140 kb/d, as both lower Chinese crude imports and product exports, along with continued OPEC+ production caps, limited seaborne oil trade.



For other oil stock changes, we have

*Excludes JODI product data

amended our methodology to include only directly observable inventories, rather than calculated estimations. Non-OECD crude oil stocks, derived from Kayrros satellite observations of aboveground, floating-roof storage, drew by 400 kb/d in 2021, compared to a 350 kb/d build in 2020. Product stocks reported to JODI for a limited set of countries, along with inventory changes from Fujairah and Singapore, fell by 60 kb/d in 2021, compared to a build of 120 kb/d in 2020.

Overall, observed global stock changes do not fully correspond to the difference between our global supply and demand estimates, which show a build of 2.92 mb/d in 2020 and a draw of 1.11 mb/d last year. The unaccounted for balance amounted to 2.0 mb/d in 2020 and 540 kb/d in 2021. Part of the difference may be explained by underground crude storage builds, new pipeline line-fill, product stocks in non-reporting countries (of which China is one, with no estimate available for product stock developments), missing observations of natural gas liquids and biofuels storage. The large unaccounted for balance also suggests supply estimates could be overstated or demand understated. Further analysis and the publication of more comprehensive annual oil statistics for 2020 over the coming months should help close the gap.

| Glo | bal Oil E | Balance a | and Obs | erved Sto | ock Chan | iges (mb | /d) | | | |
|------------------------------------|-----------|-----------|---------|-----------|----------|----------|-------|-------|-------|-------|
| | 1Q20 | 2Q20 | 3Q20 | 4Q20 | 2020 | 1Q21 | 2Q21 | 3Q21 | 4Q21 | 2021 |
| Global oil balance | 6.37 | 8.45 | -1.20 | -1.95 | 2.92 | -1.04 | -1.25 | -1.42 | -0.74 | -1.11 |
| Observed stock changes | | | | | | | | | | |
| OECD total stocks | 0.90 | 2.86 | -0.53 | -1.65 | 0.39 | -1.25 | -0.72 | -1.42 | -0.83 | -1.06 |
| Non-OECD crude stocks* | 1.44 | 0.33 | 0.51 | -0.90 | 0.35 | 0.38 | -0.40 | -0.58 | -0.99 | -0.40 |
| Selected non-OECD product stocks** | 0.07 | 0.50 | -0.10 | 0.01 | 0.12 | 0.10 | -0.08 | -0.21 | -0.06 | -0.06 |
| Oil on water | 0.55 | 0.64 | -1.70 | 0.74 | 0.06 | -0.54 | -0.36 | -0.40 | 0.73 | -0.14 |
| Total observed stock changes | 2.96 | 4.33 | -1.81 | -1.81 | 0.92 | -1.30 | -1.56 | -2.61 | -1.15 | -1.66 |
| Unaccounted for balance | 3.40 | 4.12 | 0.62 | -0.14 | 2.00 | 0.26 | 0.31 | 1.19 | 0.41 | 0.54 |

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

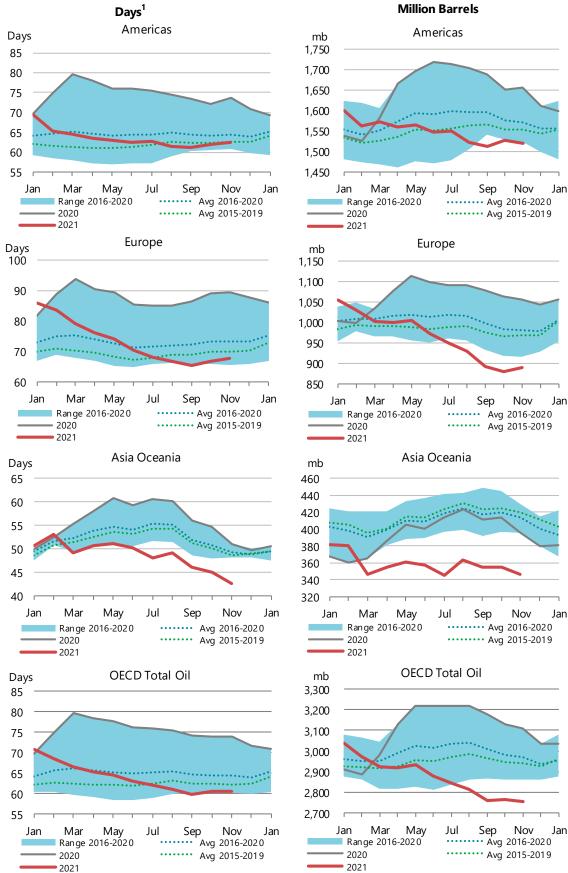
Sources: IEA, EIA, PAJ, Euroilstock, Kayrros, JODI, Kpler, FEDCom/S&P Global Platts, Enterprise Singapore.

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^{**}JODI data adjusted for monthly gaps in reporting, latest data for Oct 2021, plus Fujairah and Singapore inventories.

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.

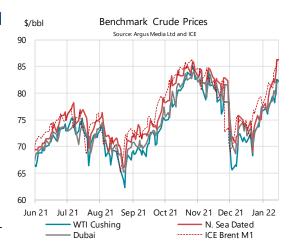
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Prices

Overview

Following their late November meltdown, crude prices struggled through most of December before making a vigorous post-holiday rebound. Producers and refiners appear unable to keep up with the start-stop demand uncertainties of Covid and the broader economic context. Since 20 December, crude prices have surged and backwardation on futures contracts has jumped. Demand remains robust, despite efforts to limit Omicron's contagion, supply growth is restrained, and refinery margins solid. Available data show crude and product stocks globally and in the OECD have fallen to exceptionally low levels. Despite abiding economic worries, clarity on Omicron's reduced virulence and geopolitical tensions have reinforced robust fundamentals.

| | Crude I | Prices a | nd Diffe | rentials (| \$/bbl) | | |
|----------------------|----------|----------|----------|------------|----------|--------|--------|
| | | Month | | Week of | Last Day | Chng [| Dec-21 |
| | Dec-20 | Nov-21 | De c-21 | 10 Jan | 18 Jan | m-o-m | у-о-у |
| Crude Futures (M | 1) | | | | | | |
| NYMEX WTI | 47.07 | 78.65 | 71.69 | 81.61 | 84.83 | -6.96 | 24.62 |
| ICE Brent | 50.22 | 80.85 | 74.80 | 83.96 | 87.16 | -6.05 | 24.58 |
| Crude Marker Gra | des | | | | | | |
| North Sea Dated | 49.72 | 81.37 | 74.01 | 85.07 | 86.84 | -7.36 | 24.28 |
| WTI (Cushing) | 47.05 | 79.18 | 71.53 | 81.61 | 83.82 | -7.65 | 24.48 |
| Dubai | 49.78 | 80.21 | 73.25 | 81.46 | 83.11 | -6.96 | 23.47 |
| Differential to Nort | h Sea Da | ted | | | | | |
| WTI (Cushing) | -2.67 | -2.19 | -2.47 | -3.46 | -3.02 | -0.28 | 0.20 |
| Dubai | 0.05 | -1.16 | -0.76 | -3.60 | -3.73 | 0.40 | -0.81 |
| Differential to ICE | Brent | | | | | | |
| North Sea Dated | -0.50 | 0.52 | -0.79 | 1.11 | -0.32 | -1.31 | -0.30 |
| NYMEX WTI | -3.15 | -2.20 | -3.11 | -2.35 | -2.33 | -0.91 | 0.04 |



Sources: Argus M edia Ltd, ICE, NYM EX (NYM EX WTI = NYM EX Light Sweet Crude)

The early December low point for prices reflected both Covid-driven oil demand concerns and technical trading dynamics. Prices remained under pressure through 20 December as oil and financial markets progressively gained a better understanding of Omicron's impact. As well, at the end of November, the US had announced a coordinated release of SPR barrels from several countries in a hope of driving oil product prices lower for consumers.

Over the past six weeks, several central banks have hiked interest rates or announced timelines to wind down liquidity injections before increasing rates, both notionally bearish for economic growth. As well, indicators for China and Europe showed weaker economic development linked in part to high energy costs. China has also suffered from a serious slowdown in the real estate sector and in infrastructure investment.

Crude futures fell some \$6-7/bbl m-o-m in December but peak-to-trough losses from 9 November to 1 December drove down ICE Brent by \$16/bbl to \$68.87/bbl and NYMEX WTI by \$19/bbl to \$65.57/bbl. Prices then clawed back some \$6/bbl over the next 4 days before stagnating in a \$3/bbl range until around Christmas. The post-holiday rally has assured equally large trough-to-peak gains of \$17.19/bbl to \$86.06/bbl for ICE Brent and \$18.25/bbl to \$83.82/bbl for NYMEX WTI on 14 January versus 1 December.

It took two to three weeks to begin to clarify Omicron's impact for oil demand. Its frightful contagiousness quickly drove governments to impose mobility restrictions, limit office presence,

discourage large gatherings, block travellers arriving from certain countries, and to accelerate vaccination programmes, including making vaccines mandatory for many activities in a number of countries. While the peaks in the waves of Omicron infections continue to rise to very high levels, the disease now appears less incapacitating. With the margin of flexibility maintained by governments and the growing frustration with restrictions, life has carried on with much less impact for oil demand than markets initially feared.

On the supply side, disruptions in Libya, Nigeria, Ecuador, and Canada (amongst others) took almost 30 mb of crude out of the market in December and early January. OPEC+ has stuck to its policy of gradually easing production cuts, yet has failed to meet its announced production targets. Non-OPEC increases have accelerated but not nearly enough to offset the foregoing dearth at the margin of crude supply. Finally, the reopening of nuclear negotiations with Iran in early December rapidly showed that the country's intransigence could delay a full crude production increase until later in 2022.

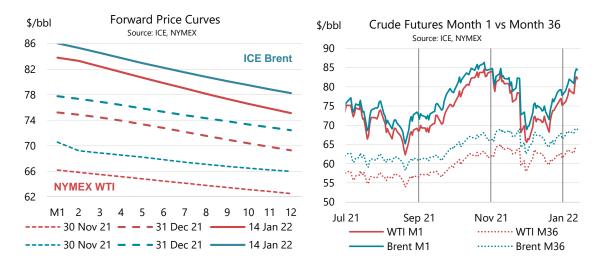
Inflation has taken root worldwide, partly linked to rising energy prices. Some central banks have already moved to increase interest rates in an effort to stem further gains. Other banks, like the US Federal Reserve and the European Central Bank, have accelerated the unwinding of quantitative easing in anticipation of interest rate hikes in 2022. However, given the levels of inflation already attained in most major economies, these measures will still leave negative real interest rates for months to come, continuing to stimulate economic growth. Consequently, central bank action may be less bearish than expected for the world economy and global oil demand. However, this overlaps with fragile Chinese economic growth where zero-Covid measures regularly affect manufacturing and logistics while a property sector slump has disrupted infrastructure investment.

Geopolitical tensions increased steadily over the past weeks. The abiding threat of a Russian attack on Ukraine has mobilized negotiations. The ongoing impact for Europe's energy crisis highlights the vulnerability of its energy systems, the broader implications for global markets, and the consequences of possible sanctions for Russian gas availability. The cost of energy in Europe and worldwide has undermined industrial activity in several countries, forcing extended plant shutdowns and impacting economic perspectives.

Futures markets

The month-on-month fall in crude futures prices took December contracts to \$74.80/bbl for ICE Brent (-\$6.05/bbl) and to \$71.89/bbl for NYMEX WTI (-\$6.96/bbl). Pressure was greater on WTI than Brent in November while its recovery over December into January has been slightly faster. While the ICE Brent premium to NYMEX WTI widened overall by \$0.91/bbl to \$3.11/bbl in December, it narrowed rapidly at the end of the month as WTI's recovery accelerated with the continued draw in US crude stocks.

The sell-off on crude futures drove net long positions on contracts to their lowest in a year by mid-December. Contract values were affected in January by rebalancing commodity investment indices, notably the Goldman Sachs Commodity Index (GSCI) and the Bloomberg Commodity Index (BCOM). Investors tracking these indices adjust their portfolios to ensure identical performance. Exposure to WTI falls in both indices while that for Brent falls in the BCOM but increases in the GSCI.



As prices fell in November, the futures price structure flattened significantly. Some position holders may have rolled out of prompt contracts, toward longer forward positions to reduce their exposure to volatility. This helped lift the back of the curve as the front declined. However, the structure recovered in late December as views shifted with better demand perspectives. For NYMEX WTI, the 1-12 month contract spread widened through end-December by \$2.25/bbl to \$5.93/bbl and reached \$8.71/bbl on 14 January. For ICE Brent, the spread widened by only about \$1/bbl to \$5.33/bbl at end-December but reached \$7.09/bbl on 14 January. The greater tension on the NYMEX contract reflects low crude stock levels but also the demand recovery and concern about potentially slower growth in US crude production. The stability of longer-dated prices at the 36-month contract horizon has resulted in a much steeper long-term backwardation for Brent and WTI, akin to the levels of early November.

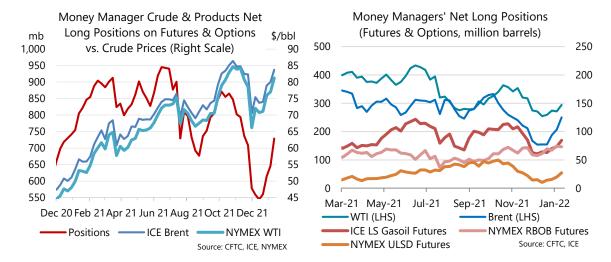
Of note during the month, one of the large independent shale patch producers exited all 2022 hedges. The move reflects the company's preference for remuneration at spot prices rather than those locked-in by hedging forward in a significantly backwardated market.

Product futures showed somewhat greater stability than crude over the past month, resulting in stronger crack spreads. The ICE gasoil crack was roughly flat m-o-m at \$12/bbl in December but reached \$14/bbl in the week of 10 January. The NYMEX ULSD crack rose \$1.73/bbl to \$22.80/bbl in December and to \$26.65/bbl in the week of 10 January. Tight Atlantic Basin gasoil stocks and cold weather supported both cracks. The NYMEX RBOB crack rose \$0.84/bbl in December to \$17.99/bbl and to \$18.99/bbl in the week of 20 December before easing below \$18/bbl into January. Cracks fell on a collapse in ethanol prices after mid-month that accelerated into January.

On 7 December, the US EPA announced an update to the Renewable Volume Obligations for 2020, 2021, and 2022. Those for 2020 and 2021 were in line with actual production levels (avoiding deficits for meeting historical obligations). Those for 2022 were lower than expected for FAME and HVO but higher for ethanol, though the E10 blend wall will cap volumes used. While awaiting further public comment before finalisation, the Biden administration suggested in the week of 10 January that the 15 million gallon ethanol blending obligation could be reduced, further undercutting the price of ethanol and contributing to weaker NYMEX RBOB prices.

Money Managers net long positions in futures and options, covering crude and products, halted their steep decline around mid-December before rebuilding their length almost as quickly. By 11 January, outright long positions had only partly recovered their mid-October levels while outright short positions had fully returned. Products appeared stronger than crude. The combined net length fell over 37% from mid-October through the second week of December,

before rising 35% to 11 January when positions reached 25% above their end-November level. Outright longs had recovered less than outright short positions by 11 January.



Net long positions on crude contracts fell by about 7% from end-November to 14 December before recovering over 30% by 4 January. Outright short positions fell 30% over this period, highlighting a loss of confidence in an anticipated drop in oil prices and capitulation with the price recovery. On the other hand, outright long positions rose to 10% above their level of 30 November. While net long positions on ICE Brent contracts rose overall from end-November into early January by 50%, those on WTI contracts only gained 7%. This is relatively consistent with the rebalancing of positions in the GSCI and BCOM indices.

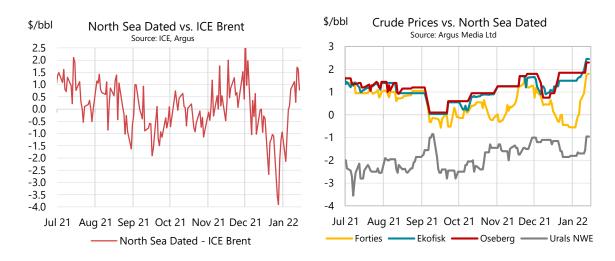
Net long positions on product contracts were relatively stable over the first half of December before rising strongly into January, for an overall gain of 36%. As for crude, outright longs on the combined product contracts increased (+18%) while outright shorts fell much more sharply (-34%). The biggest gains were made on gasoil (ICE Gasoil +35%, NYMEX ULSD +89%) while the NYMEX RBOB gasoline contract rose significantly less (+24%). RBOB contracts reflect the pressure from RVO costs and the risk of weaker demand due to rising prices.

| | | | Promp | t Month | Oil Futur | es Price | s | | | | | | |
|-------------------------------------|---------|--------|--------|--------------|--------------|------------|--------|--------|--------|--------|--------|--------|----------|
| | | | (moı | nthly and we | ekly average | es,\$/bbl) | | | | | | | |
| | De c-20 | Oct-21 | Nov-21 | De c-21 | Dec | -21 | | | Week | Comme | ncing: | | Last Day |
| | | | | | m-o-m | у-о-у | | | | | | | |
| | | | | | Chg | Chg | 06 Dec | 13 Dec | 20 Dec | 27 Dec | 03 Jan | 10 Jan | 14 Jan |
| NYMEX | | | | | | | | | | | | | |
| Light Sw eet Crude Oil (WTI) | 47.07 | 81.22 | 78.65 | 71.69 | -6.96 | 24.62 | 71.30 | 71.23 | 71.48 | 76.06 | 77.86 | 81.61 | 83.82 |
| RBOB | 55.79 | 101.65 | 95.81 | 89.68 | -6.12 | 33.90 | 88.68 | 89.50 | 90.47 | 94.74 | 96.00 | 99.34 | 101.60 |
| ULSD | 60.81 | 105.66 | 99.72 | 94.49 | -5.23 | 33.68 | 93.74 | 93.73 | 95.24 | 99.36 | 102.25 | 108.26 | 110.64 |
| ULSD (\$/mmbtu) | 10.72 | 18.63 | 17.59 | 16.66 | -0.92 | 5.94 | 16.53 | 16.53 | 16.80 | 17.52 | 18.03 | 19.09 | 2.63 |
| Henry Hub Natural Gas (\$/mmbtu) | 2.58 | 5.57 | 5.12 | 3.86 | -1.26 | 1.28 | 3.78 | 3.76 | 3.85 | 3.89 | 3.83 | 4.34 | 4.26 |
| ICE | | | | | | | | | | | | | |
| Brent | 50.22 | 83.75 | 80.85 | 74.80 | -6.05 | 24.58 | 74.78 | 74.10 | 74.76 | 78.77 | 80.70 | 83.96 | 86.06 |
| Gasoil | 55.36 | 97.04 | 92.81 | 86.81 | -5.99 | 31.46 | 86.68 | 86.47 | 86.15 | 90.52 | 93.66 | 97.98 | 100.98 |
| Prompt Month Differentials | | | | | | | | | | | | | |
| NYMEX WTI - ICE Brent | -3.15 | -2.53 | -2.20 | -3.11 | -0.91 | 0.04 | -3.48 | -2.87 | -3.28 | -2.71 | -2.84 | -2.35 | -2.24 |
| NYMEX ULSD - WTI | 13.74 | 24.44 | 21.07 | 22.80 | 1.73 | 9.06 | 22.44 | 22.50 | 23.76 | 23.30 | 24.39 | 26.65 | 26.82 |
| NYMEX RBOB - WTI | 8.72 | 20.43 | 17.16 | 17.99 | 0.84 | 9.28 | 17.38 | 18.27 | 18.99 | 18.68 | 18.14 | 17.74 | 17.78 |
| NYMEX 3-2-1 Crack (RBOB) | 10.39 | 21.77 | 18.46 | 19.60 | 1.13 | 9.21 | 19.07 | 19.68 | 20.58 | 20.22 | 20.22 | 20.71 | 20.79 |
| NYMEX ULSD - Natural Gas (\$/mmbtu) | 8.14 | 13.06 | 12.47 | 12.80 | 0.33 | 4.66 | 12.75 | 12.77 | 12.94 | 13.64 | 14.21 | 14.75 | -1.63 |
| ICE Gasoil - ICE Brent | 5.14 | 13.29 | 11.96 | 12.01 | 0.06 | 6.88 | 11.90 | 12.37 | 11.39 | 11.75 | 12.96 | 14.02 | 14.92 |

Source: ICE, NYMEX

Spot crude oil prices

The physical-crude-to-futures price premium of November swung to a discount in December. The sudden appearance and the uncertainties of the Omicron variant sidelined crude purchases. Refiners reassessed their requirements while drawing on stocks. The North Sea Dated premium to ICE Brent flipped to a discount in the first week of December that deepened regularly into the end of the month. The holiday season delayed any recovery in demand for physical barrels while paper markets leapt higher after 20 December. This exagerated the physical discount to futures which blew out to \$2.34/bbl in the week of 27 December (and over \$3.50/bbl on a couple of days). With Christmas over and Omicron appearing less menacing, refinery demand recovered and physical prices moved rapidly back to a premium versus futures that averaged \$1.11/bbl in the week of 10 January.

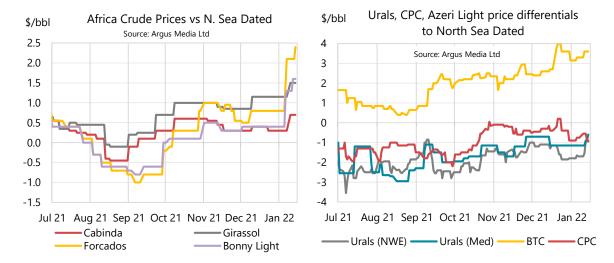


The rapid rise in crude prices did not undermine refinery margins that remained robust. Margin strength arose in particular from tight gasoline and middle distillate markets, but LPG and naphtha remained well supported as well. Refiners focussed particularly on light grades as opposed to heavier crudes. This benefitted North Sea and West African barrels, which saw their prices strengthen relative to North Sea Dated.

North Sea Dated prices lagged the recovery in WTI and Dubai prices, narrowing the premiums versus both grades. The arrival of light sweet US barrels in the European market (loaded in late November) capped North Sea crude price differentials in the first part of December. This opened the west-east arbitrage, facilitating West African exports to Asia. The Asian call on Atlantic Basin barrels (China and India), in addition to strong European buying, helped sustain West African crude prices versus North Sea Dated.

The Mediterranean market tightened with the loss of Libyan exports until roughly 7 January. This supported European demand for West African barrels as well as light sweet BTC barrels, boosting their differentials versus North Sea Dated. CPC values (CIF MED) versus North Sea Dated fell due to the easing of Turkish Straits' transit delays, which allowed more crude to move to the Mediterranean. There was no apparent crude export impact from the civil unrest in Kazakhstan.

Urals crude prices in Northwest Europe were well supported in early December by strong fuel prices while the narrow Brent premium to Dubai attracted Asian buyers. The discounts widened in mid-December versus North Sea Dated as the latter surged to catch-up with Brent futures. Urals discounts eventually recovered with the overall tightening of the regional market.

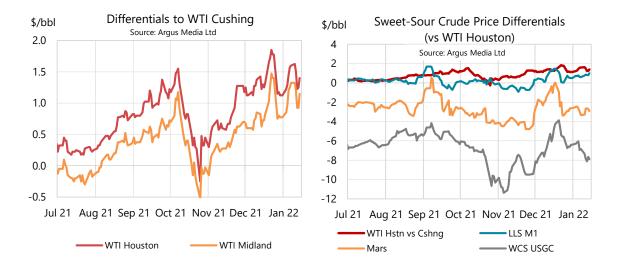


East of Suez, Middle East grade differentials were supported by steady crude demand, despite impending spring refinery maintenance schedules and the demand impact of Omicron restrictions. However, Chinese refinery buying (including independent refiners) remains weak ahead of the Chinese New Year and the Olympic games. Differentials suffered from ample crude availability for regional refiners that capped prices versus Dubai through most of December. Competition arose from Atlantic Basin grades (including WTI) while Gulf producers allocated full term volumes to most Asian clients. The trends reversed in late December as a recovery in North Sea Dated prices undermined the competitive position of West African grades, boosting Middle Eastern values.

As of January, Iraq's State Oil Marketing Organization (SOMO) stopped marketing and exporting its Basrah Light crude grade. It will now export only Basrah Medium and Basrah Heavy. The dwindling Basrah Light barrels will be provided to domestic refiners. Iraq exported 2.1 mb/d of Basrah Light and 800 kb/d of Basrah Heavy in 2020. After its creation in January 2021, Basrah Medium became the largest export stream (1.1 mb/d in 2021) by canabalising part of Basrah Light (down to 900 kb/d of exports). After a couple of years of deteriorating density for Basrah Light, the introduction of Basrah Medium has provided an outlet for denser new streams and allowed the density of the light grade to return to more typical levels in 2020 around 31° API.

The mid-month sell-off in NYMEX light crude futures drove prices for WTI lower at Cushing, Oklahoma, leading to a spike in price premiums at Midland and Houston in December. While differentials fell back in late December, the continued tightening of crude stocks in PADD3 and the sharp rise in North Sea Dated prices helped narrow discounts for WTI at Cushing versus Houston and Midland. Steady draws on US crude stocks have pushed them to their lowest levels since October 2018. The demand for light sweet grades like LLS and WTI has widened premiums to heavier sour Mars or Western Canadian Select (WCS) on the US Gulf Coast.

WCS discounts narrowed on average in December. At Houston, they reduced by \$3.10/bbl to -\$6.28/bbl versus WTI and at Hardisty, Alberta they tightened by \$4.20/bbl to -\$17/bbl versus WTI at Cushing. Differentials narrowed throughout December and into early January, thanks to strong US refinery margins and throughputs. In late December, extreme cold that carried over into January impacted oil sands operations, rail loadings and pipelines, leading to a deterioration of discounts in January. The ramp-up of regional refinery maintenance into January and February has also marginally impacted prices in January for Canadian crude; whose shipment by pipeline takes three weeks to Chicago and four weeks to refiners at Houston.



| | | s | • | | ces and | | tials | | | | | | |
|--|---------|--------|--------|--------|---------|-------|--------|--------|--------|--------|--------|--------|----------|
| | De c-20 | Oct-21 | Nov-21 | Dec-21 | Dec | -21 | | | Week | Comme | ncing: | | Last Day |
| | | | | | m-o-m | у-о-у | | | | | | | |
| | | | | | Chg | Chg | 06 Dec | 13 Dec | 20 Dec | 27 Dec | 03 Jan | 10 Jan | 14 Jan |
| Crudes | | | | | | | | | | | | | |
| North Sea Dated | 49.72 | 83.54 | 81.37 | 74.01 | -7.36 | 24.28 | 74.50 | 73.77 | 73.28 | 77.36 | 81.11 | 85.07 | 86.84 |
| North Sea Mth 1 | 50.28 | 84.42 | 82.17 | 74.69 | -7.48 | 24.41 | 75.01 | 74.30 | 74.30 | 78.81 | 82.42 | 84.72 | 86.20 |
| North Sea Mth 2 | 50.16 | 83.80 | 81.13 | 74.49 | -6.63 | 24.33 | 74.83 | 74.22 | 74.13 | 78.45 | 81.41 | 83.99 | 85.61 |
| WTI (Cushing) Mth 1 | 47.05 | 81.36 | 79.18 | 71.53 | -7.65 | 24.48 | 71.30 | 71.23 | 71.53 | 76.28 | 77.86 | 81.61 | 83.82 |
| WTI (Cushing) Mth 2 | 47.21 | 80.62 | 78.31 | 71.35 | -6.97 | 24.14 | 71.12 | 71.02 | 71.57 | 75.89 | 77.48 | 81.06 | 83.30 |
| WTI (Houston) Mth 1 | 48.59 | 82.10 | 79.92 | 72.86 | -7.06 | 24.27 | 72.55 | 72.53 | 73.28 | 77.42 | 79.29 | 83.01 | 85.22 |
| Urals (NWE) | 49.01 | 81.49 | 79.89 | 72.69 | -7.20 | 23.68 | 73.38 | 72.61 | 71.77 | 75.54 | 79.40 | 83.85 | 85.89 |
| Urals (Mediterranean) | 50.07 | 81.93 | 80.08 | 73.07 | -7.00 | 23.01 | 73.80 | 72.80 | 72.13 | 76.21 | 79.96 | 84.13 | 86.24 |
| Dubai (1st month) | 49.78 | 81.46 | 80.21 | 73.25 | -6.96 | 23.47 | 72.88 | 73.24 | 72.41 | 77.31 | 78.18 | 81.46 | 83.11 |
| Tapis (Dated) | 50.88 | 86.39 | 85.09 | 78.88 | -6.21 | 28.00 | 79.20 | 78.47 | 77.98 | 82.19 | 85.11 | 89.77 | 91.54 |
| Differentials to Futures | | | | | | | | | | | | | |
| North Sead Dated vs. ICE Brent | -0.50 | -0.21 | 0.52 | -0.79 | -1.31 | -0.30 | -0.28 | -0.33 | -1.48 | -1.41 | 0.41 | 1.11 | 0.78 |
| WTI (Cushing) Mth1 vs. NYMEX | -0.02 | 0.14 | 0.53 | -0.16 | -0.69 | -0.14 | 0.00 | 0.00 | 0.05 | 0.22 | 0.00 | 0.00 | 0.00 |
| Differentials to Physical Markers | | | | | | | | | | | | | |
| WTI (Houston) versus North Sea Mth 1 | -1.69 | -2.32 | -2.25 | -1.83 | 0.42 | -0.14 | -2.46 | -1.77 | -1.02 | -1.39 | -3.13 | -1.72 | -0.98 |
| WTI (Houston) versus WTI (Cushing) Mth 1 | 1.54 | 0.75 | 0.74 | 1.33 | 0.59 | -0.21 | 1.24 | 1.31 | 1.75 | 1.14 | 1.43 | 1.40 | 1.40 |
| Urals (NWE) versus North Sea Dated | -0.71 | -2.06 | -1.48 | -1.31 | 0.16 | -0.61 | -1.12 | -1.16 | -1.51 | -1.82 | -1.71 | -1.22 | -0.95 |
| Urals (Med) versus North Sea Dated | 0.34 | -1.61 | -1.29 | -0.94 | 0.36 | -1.28 | -0.70 | -0.97 | -1.15 | -1.15 | -1.15 | -0.94 | -0.60 |
| Dubai versus North Sea Mth 2 | -0.39 | -2.34 | -0.91 | -1.24 | -0.33 | -0.86 | -1.95 | -0.98 | -1.72 | -1.13 | -3.23 | -2.52 | -2.50 |
| Dubai versus WTI (Cushing) Mth 2 | 2.56 | 0.83 | 1.90 | 1.90 | 0.00 | -0.66 | 1.76 | 2.22 | 0.84 | 1.42 | 0.70 | 0.40 | -0.19 |
| Prompt Month Differentials | | | | | | | | | | | | | |
| Forward North Sea Mth1-Mth2 | 0.12 | 0.63 | 1.04 | 0.19 | -0.85 | 0.07 | 0.18 | 0.08 | 0.17 | 0.36 | 1.01 | 0.74 | 0.59 |
| Forw ard WTI Cushing Mth1-Mth2 | -0.16 | 0.73 | 0.87 | 0.19 | -0.68 | 0.35 | 0.18 | 0.20 | -0.04 | 0.38 | 0.38 | 0.54 | 0.52 |
| Forw ard Dubai Mth1-Mth2 | 0.34 | 1.09 | 1.91 | 1.00 | -0.91 | 0.66 | 1.31 | 1.03 | 0.93 | 0.58 | 0.85 | 0.91 | 0.92 |

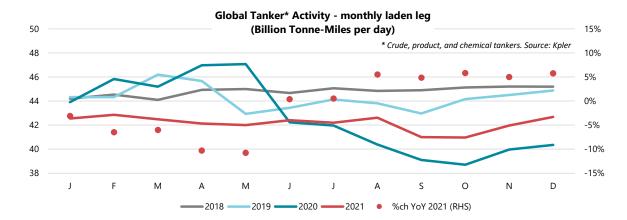
Source: Argus Media Ltd, ICE

Freight

Global tanker activity rose by around 2% m-o-m in December and was almost 6% higher than a year ago. Despite the improvement, activity continued to lag the 2019 level by around 5%.

Two years into the crisis, the dirty tanker fleet has yet to adjust to the weaker activity level. After expanding slightly in 2020 as scrapping stalled, the tanker fleet increased again in 2021 (+2.3% according to shipbrokers quoted by *S&P Global Platts*). Dirty tanker scrapping accelerated in 2H21 due to weak freight rates and the high cost of new regulations that oblige older tankers to retrofit ballast water treatment facilities at their next five-year Special Survey (that confirms fitness for chartering). At the same time, new tanker tonnage deliveries in 2021 continued to offset scrapping as in 2020. According to ship broker and charterer Barry Rogliano Salles (BRS),

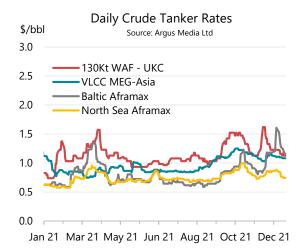
deliveries will accelerate in 2022 for Aframaxes, Suezmaxes, and VLCCs, but they expect the scrapping in 2022 to only be on par with the modest level seen in 2021 (107 tankers over 34 thousand tonnes forecast to be scrapped). The dirty tonnage surplus will thus persist.

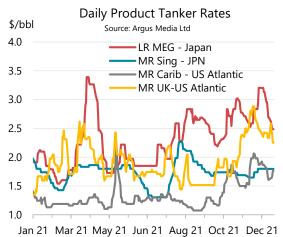


On the other hand, the clean tanker surplus has narrowed over the past year as product trading has steadily recovered since its mid-2020 low point. The drawdown in on-land stocks has benefitted this product trading, providing a fillip to chartering. Nevertheless, the significant increase in vessel supply has largely offset this trend in 2021, due to more deliveries than demolitions for both MR and LR vessels (according to *S&P Global Platts*). Additional competition has come from the use of new build dirty tankers (VLCCs, Suezmaxes, Aframaxes) that typically transport clean product on their maiden voyage (and for as many trips as possible) in order to benefit from the higher average returns.

Dirty tanker freight rates remained almost unchanged on average in December. Pre-Christmas gains on chartering for January and February mostly held over the holiday hiatus. However, there is ample VLCC and Suezmax tanker availability in the Middle East and West Africa. The Mediterranean Aframax market weakened due to production losses in Libya and easing Turkish Straits transit delays, although winter weather has increased loading delays in North Africa. In Northwest Europe, the Baltic Aframax market tightened initially as a late month spike in cold weather increased the call on ice-class vessels, but the gains were lost in early January.

The recent rise of certain clean tanker market segments peaked in December before dropping at the end of the year and into January. The holiday lull in chartering combined with ample MR tonnage availability pressured Atlantic Basin rates. However, chartering eliminated much of the regional tanker surplus by early January, readying the market for a rebound. Rates from the Middle East to Asia have benefitted from reduced Chinese clean product exports. Gulf refiners have provided much of the supply to offset the shortfall of Chinese cargoes. China issued a lower-than-expected first batch of 2022 clean product export quotas, supporting the continued call on Middle Eastern exports.





| | | | (1 | nonthly : | Freight C | | bbl) | | | | | |
|-------------------------|---------|--------|--------|-----------|-----------|-----------|--------|--------|---------|--------|--------|--------|
| | | | | | Dec | -21 | | V | Veek Co | mmenci | ng | |
| | De c-20 | Oct-21 | Nov-21 | Dec-21 | m-o-m chg | y-o-y chg | 06-Dec | 13-Dec | 20-Dec | 27-Dec | 03-Jan | 10-Jan |
| Crude Tankers | | | | | | | | | | | | |
| VLCC MEG-Asia | 1.10 | 1.14 | 1.18 | 1.09 | -0.08 | 0.0 | 1.05 | 1.07 | 1.14 | 1.11 | 1.10 | 1.08 |
| 130Kt WAF - UKC | 0.92 | 1.38 | 1.31 | 1.32 | 0.01 | 0.4 | 1.41 | 1.45 | 1.26 | 1.23 | 1.19 | 1.14 |
| Baltic Aframax | 0.58 | 0.85 | 1.01 | 1.06 | 0.05 | 0.5 | 0.85 | 1.07 | 1.17 | 1.42 | 1.40 | 1.19 |
| North Sea Aframax | 0.61 | 0.82 | 0.87 | 0.81 | -0.06 | 0.2 | 0.77 | 0.83 | 0.85 | 0.87 | 0.82 | 0.75 |
| Product Tankers | | | | | | | | | | | | |
| LR MEG - Japan | 2.25 | 2.35 | 2.80 | 2.86 | 0.06 | 0.6 | 2.58 | 2.78 | 3.08 | 3.17 | 2.82 | 2.52 |
| MR Sing - JPN | 1.83 | 1.73 | 1.71 | 1.72 | 0.01 | -0.1 | 1.64 | 1.70 | 1.79 | 1.80 | 1.80 | 1.80 |
| MR Carib - US Atlantic | 1.18 | 1.27 | 1.67 | 1.83 | 0.17 | 0.7 | 1.75 | 2.02 | 1.91 | 1.88 | 1.69 | 1.69 |
| MR UK-US Atlantic | 1.37 | 1.70 | 1.99 | 2.60 | 0.61 | 1.2 | 2.67 | 2.81 | 2.50 | 2.40 | 2.36 | 2.39 |
| Source: Argus Media Ltd | | | | | | | | | | | | |

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Tables

| Ianies | | | | | | | | | | | | | | | | | |
|--|--------------|--------------|--------------|--------------|--------------|--------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | | | | | | Tab | le 1 | | | | | | | | | | |
| | | | WOF | RLD (| OIL S | SUPF | PLY A | ND DE | MAN | D | | | | | | | |
| | | | | | (mi | llion barr | els per day | | | | | | | | | | |
| | 0040 | 0040 | 4000 | 0000 | 0000 | 4000 | 0000 | 4004 | 0004 | 0004 | 1001 | 0004 | 4000 | 0000 | | 1000 | 0000 |
| | 2018 | 2019 | 1Q20 | 2Q20 | 3Q20 | 4Q20 | 2020 | 1Q21 | 2Q21 | 3Q21 | 4Q21 | 2021 | 1Q22 | 2Q22 | 3Q22 | 4Q22 | 2022 |
| OECD DEMAND | | | | | | | | | | | | | | | | | |
| Americas | 25.4 | 25.5 | 24.3 | 19.8 | 22.6 | 23.0 | | 22.7 | 24.3 | 24.7 | 24.7 | 24.1 | 24.2 | 25.1 | 25.5 | 25.1 | 25.0 |
| Europe Asia Ossania | 14.3 | 14.3 | 13.3 | 11.0 | 12.9 | 12.5 | | 11.9 | 12.6 | 13.8 | 13.7 | 13.0 | 13.1 | 13.5 | 14.0 | 13.7 | 13.6 |
| Asia Oceania | 8.0 | 7.9 | 7.9 | 6.6 | 6.8 | 7.3 | | 7.7 | 7.0 | 7.1 | 7.7 | 7.4 | 7.9 | 7.2 | 7.4 | 7.9 | 7.6 |
| Total OECD | 47.7 | 47.7 | 45.5 | 37.5 | 42.3 | 42.8 | 42.0 | 42.3 | 44.0 | 45.7 | 46.1 | 44.5 | 45.3 | 45.8 | 46.9 | 46.7 | 46.2 |
| NON-OECD DEMAND | | | | | | | | | | | | | | | | | |
| FSU | 4.7 | 4.7 | 4.6 | 4.1 | 4.7 | 4.7 | 4.5 | 4.6 | 4.7 | 4.9 | 5.0 | 4.8 | 4.7 | 4.8 | 5.1 | 5.1 | 4.9 |
| Europe | 0.8 | 0.8 | 0.7 | 0.7 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.8 | 0.8 | 0.8 | 0.7 | 0.8 | 0.8 | 0.8 | 0.8 |
| China Other Asia | 13.0 14.0 | 13.5 14.0 | 11.9 13.5 | 14.2 11.3 | 14.6 12.2 | 14.9 13.4 | | 14.6 13.5 | 15.3 12.8 | 15.3 12.5 | 15.4 13.8 | 15.2 13.2 | 15.2 14.1 | 15.8 14.0 | 15.8 13.5 | 15.8 14.2 | 15.6 13.9 |
| Americas | 6.3 | 6.3 | 5.8 | 5.0 | 5.7 | 5.9 | 5.6 | 5.8 | 5.8 | 6.2 | 6.1 | 6.0 | 5.9 | 6.0 | 6.2 | 6.1 | 6.0 |
| Middle East | 8.2 | 8.2 | 7.9 | 7.1 | 8.1 | 7.8 | | 7.7 | 8.0 | 8.4 | 7.8 | 8.0 | 7.9 | 8.0 | 8.5 | 8.0 | 8.1 |
| Africa | 4.2 | 4.3 | 4.1 | 3.5 | 3.7 | 3.9 | 3.8 | 4.1 | 4.0 | 3.9 | 4.0 | 4.0 | 4.1 | 4.1 | 4.0 | 4.2 | 4.1 |
| Total Non-OECD | 51.1 | 51.8 | 48.4 | 45.9 | 49.9 | 51.3 | 48.9 | 51.0 | 51.4 | 52.1 | 52.8 | 51.8 | 52.6 | 53.5 | 54.0 | 54.1 | 53.5 |
| Total Demand ¹ | 98.9 | 99.5 | 93.9 | 83.3 | 92.1 | 94.1 | 90.9 | 93.3 | 95.4 | 97.8 | 99.0 | 96.4 | 97.8 | 99.3 | 100.9 | 100.8 | 99.7 |
| OECD SUPPLY | | | | | | | | | | | | | | | | | |
| OECD SUPPLY Americas | 23.0 | 24.8 | 25.9 | 22.6 | 23.2 | 23.7 | 23.8 | 23.3 | 24.2 | 24.3 | 25.4 | 24.3 | 25.3 | 25.4 | 25.7 | 26.0 | 25.6 |
| Europe | 3.5 | 3.4 | 3.7 | 3.6 | 3.4 | 3.5 | | 3.6 | 3.1 | 3.4 | 3.4 | 3.4 | 3.5 | 3.4 | 3.4 | 3.5 | 3.5 |
| Asia Oceania | 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 |
| Total OECD ⁴ | 26.9 | 28.6 | 30.1 | 26.8 | 27.1 | 27.8 | 27.9 | 27.4 | 27.8 | 28.3 | 29.4 | 28.2 | 29.4 | 29.3 | 29.6 | 30.0 | 29.6 |
| NON-OECD SUPPLY | | | | | | | | | | | | | | | | | |
| FSU | 14.6 | 14.6 | 14.8 | 13.2 | 12.8 | 13.2 | 13.5 | 13.4 | 13.7 | 13.7 | 14.3 | 13.8 | 14.4 | 14.5 | 14.6 | 14.8 | 14.6 |
| Europe | 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 | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 |
| Other Asia | 3.4 | 3.3 | 3.2 | 3.0 | 2.9 | 3.0 | 3.0 | 3.0 | 2.9 | 2.8 | 2.8 | 2.9 | 2.8 | 2.8 | 2.8 | 2.7 | 2.8 |
| Americas | 5.1 | 5.3 | 5.6 | 5.1 | 5.4 | 5.2 | | 5.3 | 5.3 | 5.4 | 5.2 | 5.3 | 5.4 | 5.5 | 5.6 | 5.6 | 5.5 |
| Middle East | 3.1 | 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 | 3.3 | 3.3 | 3.2 |
| Africa | 1.5 | 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 |
| Total Non-OECD ⁴ | 31.6 | 31.8 | 32.2 | 29.9 | 29.6 | 29.7 | 30.3 | 30.2 | 30.5 | 30.5 | 30.9 | 30.5 | 31.3 | 31.5 | 31.7 | 31.9 | 31.6 |
| Processing gains ³ | 2.4 | 2.4 | 2.3 | 2.0 | 2.1 | 2.1 | 2.1 | 2.1 | 2.2 | 2.3 | 2.3 | 2.3 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 |
| Global Biofuels | 2.7 | 2.8 | 2.3 | 2.5 | 3.1 | 2.6 | | 2.2 | 2.9 | 3.2 | 2.7 | 2.7 | 2.4 | 3.1 | 3.4 | 3.0 | 3.0 |
| Total Non-OPEC Supply | 63.5 | 65.6 | 66.8 | 61.1 | 61.9 | 62.2 | 63.0 | 61.9 | 63.5 | 64.3 | 65.3 | 63.7 | 65.4 | 66.3 | 67.1 | 67.3 | 66.5 |
| OPEC ² | | | | | | | | | | | | | | | | | |
| Crude | 31.4 | 29.6 | 28.2 | 25.6 | 24.1 | 24.9 | 25.7 | 25.3 | 25.5 | 26.9 | 27.7 | 26.4 | | | | | |
| NGLs | 5.4 | 5.3 | 5.3 | 5.1 | 5.0 | 5.1 | 5.1 | 5.1 | 5.2 | 5.2 | 5.2 | 5.2 | 5.3 | 5.4 | 5.4 | 5.4 | 5.4 |
| Total OPEC | 36.8 | 35.0 | 33.5 | 30.6 | 29.1 | 30.0 | | 30.4 | 30.7 | 32.1 | 33.0 | 31.6 | | | | | |
| Total Supply | 100.3 | 100.5 | 100.3 | 91.7 | 91.0 | 92.2 | 93.8 | 92.3 | 94.1 | 96.4 | 98.2 | 95.3 | | | | | |
| STOCK CHANGES AND MISCELI | LANEOU | JS | | | | | | | | | | | | | | | |
| Reported OECD | | | | | | | | | | | | | | | | | |
| Industry | 0.1 | 0.1 | 1.0 | 2.6 | -0.4 | -1.6 | 0.4 | -1.3 | -0.5 | -1.3 | | | | | | | |
| Government | -0.1 | 0.0 | 0.0 | 0.3 | -0.1 | -0.1 | 0.0 | 0.0 | -0.2 | -0.1 | | | | | | | |
| Total | 0.0 | 0.0 | 1.0 | 2.9 | -0.5 | -1.7 | 0.4 | -1.2 | -0.7 | -1.4 | | | | | | | |
| Floating storage/Oil in transit Miscellaneous to balance ⁵ | 0.3 | 0.1 | 0.6 | 0.4 | -1.6 | 0.8 | 0.0 | -0.6 | -0.4 | -0.4 | | | | | | | |
| | 1.1 | 0.9 | 4.7 | 5.1 | 1.0 | -1.0 | 2.4 | 0.8 | -0.1 | 0.4 | | 4.4 | | | | | |
| Total Stock Ch. & Misc | 1.4 | 1.0 | 6.4 | 8.4 | -1.2 | -2.0 | 2.9 | -1.0 | -1.2 | -1.4 | -0.7 | -1.1 | | | | | |
| Memo items: | | | | | | | | | | | | | | | | | |
| Call on OPEC crude + Stock ch.6 | 30.0 | 28.7 | 21.8 | 17.2 | 25.3 | 26.9 | 22.8 | 26.3 | 26.7 | 28.3 | 28.5 | 27.5 | 27.1 | 27.6 | 28.3 | 28.0 | 27.8 |
| | | | | | | | | | | | | | | | | | |

<sup>Measured as deliveries from refineries and primary stocks, comprises inland deliveries, international marine bunkers, refinery fuel, crude for direct burning, oil from non-conventional sources and other sources of supply. Includes biofuels.

OPEC data based on today's membership throughout the time series.

Net volumetric gains and losses in the refining process and marine transportation losses.

Comprises crude oil, condensates, NCIs., oil from non-conventional sources and other sources of supply.

Includes changes in non-reported stocks in OECD and non-OECD areas.

Total demand minus total non-OPEC supply minus OPEC NGLs.</sup>

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| | | | | | | | e 1a | | | | | | | | | | |
|----------------------------------|-------------|-------|-------|------|-----------|------|--------------------|------|-------|------|------|-------|-------|------|---------------|------|------|
| WC | ORLD OIL S | UPPL' | Y AND | DEN | | | IANG els per da | | OM L | AST | MON | ITH'S | TABLE | 1 | | | |
| | 2019 | 2019 | 1020 | 2Q20 | | | | | 2021 | 2021 | 4Q21 | 2024 | 1Q22 | 2022 | 2022 | 4022 | 202 |
| | 2010 | 2019 | 1020 | 2020 | 3Q20 | 4420 | 2020 | IQZI | 2421 | 3421 | 4421 | 2021 | IQZZ | 2022 | 3 Q 22 | 4022 | 202 |
| OECD DEMAND Americas | | | | | | | | | | | -0.2 | _ | -0.1 | _ | -0.1 | | |
| Europe | | _ | | - [| - | | | | _ | - | 0.3 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0. |
| Asia Oceania | - | _ | - | - | - | - | _ | - | _ | - | | - | - | - | - | - | ٥. |
| Total OECD | | - | - | - | - | - | - | - | - | - | 0.1 | - | - | - | - | 0.1 | |
| NON-OECD DEMAND | | | | | | | | | | | | | | | | | |
| FSU | - | - | - | - | - | - | - | - | - | - | 0.1 | - | - | - | - | - | |
| Europe | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| China | - | - | - | - | - | - | - | - | 0.1 | 0.1 | 0.3 | 0.1 | - | - | - | 0.3 | 0. |
| Other Asia | - | - | - | - | - | - | - | - | - | - | -0.1 | - | -0.1 | - | - | - | -0. |
| Americas | - | - | - | - | - | - | - | - | - 0.4 | - | - | - | - | - | - | - | _ |
| Middle East Africa | - | _ | 0.1 | 0.1 | -0.1 - | - | - | - | 0.1 | 0.1 | - | - | 0.1 | 0.1 | 0.1 | - | 0. |
| Total Non-OECD | | - | 0.1 | 0.2 | - | - | 0.1 | - | 0.2 | 0.1 | 0.2 | 0.2 | -0.1 | 0.1 | 0.1 | 0.4 | 0. |
| Total Demand | | - | 0.1 | 0.2 | - | - | 0.1 | - | 0.2 | 0.2 | 0.3 | 0.2 | -0.1 | 0.2 | 0.1 | 0.5 | 0. |
| OECD SUPPLY | | | | | | | | | | | | | | | | | |
| Americas | - | - | - | - | - | - | - | - | - | - | 0.2 | - | 0.1 | - | - | - | |
| Europe | - | - | - | - | - | - | - | - | - | - | -0.1 | - | - | - | -0.1 | -0.1 | -0. |
| Asia Oceania | - | - | - | - | - | - | - | - | - | - | 0.4 | - | - 0.1 | - | - 0.4 | 0.4 | |
| Total OECD | | - | - | - | - | - | - | - | - | - | 0.1 | - | 0.1 | • | -0.1 | -0.1 | |
| NON-OECD SUPPLY | | | | | | | | | | | | | | | | | _ |
| FSU | - | - | - | - | - | - | - | - | - | - | - | - | -0.1 | -0.2 | -0.1 | -0.2 | -0.1 |
| Europe China | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Other Asia | _ | _ | - | - [| - | | | | - | - | - | - | | - | - | - | |
| Americas | - | _ | - | _ | _ | _ | _ | _ | _ | _ | -0.1 | _ | _ | _ | _ | _ | |
| Middle East | - | _ | - | _ | - | - | _ | - | _ | - | - | - | - | - | _ | - | |
| Africa | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Total Non-OECD | | - | - | - | - | - | - | - | - | - | -0.1 | - | -0.1 | -0.2 | -0.1 | -0.1 | -0.1 |
| Processing gains Global Biofuels | - | - | - | - | - | - | - | - | - | - | - | - | -0.2 | - | 0.1 | - | |
| Total Non-OPEC Supply | | - | - | - | | - | - | - | _ | - | - | - | -0.2 | -0.1 | -0.1 | -0.2 | -0.1 |
| OPEC | | | | | | | | | | | | | | | | | |
| Crude | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | | | | | | | |
| NGLs | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | |
| Total OPEC | | _ | | - | | | | | | | | | | | | | |
| Total Supply | | - | - | - | - | - | - | - | - | - | | | | | | | |
| STOCK CHANGES AND | MISCELLANEO | US | | | | | | | | | | | | | | | |
| REPORTED OECD | | | | | | | | | | | | | | | | | |
| Industry | - | - | - | - | - | - | - | - | - | - | | | | | | | |
| Government | - | - | - | - | - | - | - | - | - | - | | | | | | | |
| Total | | - | - | - | - | - | - | - | - | - | | | | | | | |
| Floating storage/Oil in transi | it - | - | - | - | - | - | - | - | - | - | | | | | | | |
| Miscellaneous to balance | - | - | - | | - | | | - | | | | | | | | | |
| Total Stock Ch. & Misc | • | - | - | -0.2 | - | - | -0.1 | - | -0.2 | -0.2 | | | | | | | |
| Memo items: | | | | | | | | | | | | | | | | | |
| Call on OPEC crude + Sto | ck ch | - | - | 0.2 | - | - | 0.1 | - | 0.2 | 0.2 | 0.3 | 0.2 | 0.1 | 0.3 | 0.1 | 0.6 | 0.3 |

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

| | J.(LD | | | | LIVIA | | on barrels pe | | C+ ba | iseu (| ni Gui | ισιιι αί | Ji ee iii | 511t <i>)</i> | | | |
|-------------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| | 2018 | 2019 | 1Q20 | 2Q20 | 3Q20 | 4Q20 | 2020 | 1Q21 | 2Q21 | 3Q21 | 4Q21 | 2021 | 1Q22 | 2Q22 | 3Q22 | 4Q22 | 2022 |
| Total Demand | 98.9 | 99.5 | 93.9 | 83.3 | 92.1 | 94.1 | 90.9 | 93.3 | 95.4 | 97.8 | 99.0 | 96.4 | 97.8 | 99.3 | 100.9 | 100.8 | 99.7 |
| OECD SUPPLY | | | | | | | | | | | | | | | | | |
| Americas ² | 20.9 | 22.8 | 23.9 | 20.7 | 21.3 | 21.8 | 21.9 | 21.3 | 22.3 | 22.4 | 23.4 | 22.4 | 23.3 | 23.4 | 23.7 | 24.0 | 23.0 |
| Europe | 3.5 | 3.4 | 3.7 | 3.6 | 3.4 | 3.5 | 3.6 | 3.6 | 3.1 | 3.4 | 3.4 | 3.4 | 3.5 | 3.4 | 3.4 | 3.5 | 3.5 |
| Asia Oceania | 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 |
| Total OECD (non-OPEC+) | 24.8 | 26.7 | 28.1 | 24.8 | 25.2 | 25.9 | 26.0 | 25.5 | 25.9 | 26.3 | 27.4 | 26.3 | 27.4 | 27.3 | 27.6 | 28.0 | 27.6 |
| NON-OECD SUPPLY | | | | | | | | | | | | | | | | | |
| FSU 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 | 0.4 | 0.4 | 0.4 | 0.4 |
| Europe | 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. |
| China | 3.8 | 3.9 | 4.0 | 4.0 | 4.0 | 3.9 | 4.0 | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 | 4. |
| 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. |
| Latin 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 | 5.6 | 5.6 | 5. |
| Middle 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 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| Africa 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 | 1.0 | 1.1 | 1.1 | 1.1 |
| Total Non-OECD (non-OPEC+) | 15.1 | 15.3 | 15.5 | 14.9 | 15.1 | 14.8 | 15.1 | 15.1 | 15.1 | 15.2 | 14.9 | 15.1 | 15.1 | 15.2 | 15.2 | 15.3 | 15.2 |
| Processing 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 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 |
| Global Biofuels | 2.7 | 2.8 | 2.3 | 2.5 | 3.1 | 2.6 | 2.6 | 2.2 | 2.9 | 3.2 | 2.7 | 2.7 | 2.4 | 3.1 | 3.4 | 3.0 | 3.0 |
| Total Non-OPEC+ | 44.9 | 47.1 | 48.2 | 44.3 | 45.5 | 45.4 | 45.9 | 44.8 | 46.1 | 47.0 | 47.3 | 46.3 | 47.3 | 48.0 | 48.6 | 48.6 | 48.1 |
| OPEC+ CRUDE | | | | | | | | | | | | | | | | | |
| Algeria | 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 |
| Angola | 1.5 | 1.4 | 1.4 | 1.3 | 1.2 | 1.2 | 1.3 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| Azerbaijan | 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 |
| Bahrain | 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 |
| Brunei | 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 |
| Equatorial Guinea | 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 |
| Gabon | 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 |
| Iran | 3.6 | 2.4 | 2.0 | 1.9 | 2.0 | 2.1 | 2.0 | 2.3 | 2.4 | 2.5 | 2.5 | 2.4 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
| Iraq | 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 | 4.5 | 4.6 | 4.7 | 4.5 |
| Kazakhstan | 1.6 | 1.6 | 1.7 | 1.5 | 1.4 | 1.4 | 1.5 | 1.5 | 1.5 | 1.4 | 1.7 | 1.5 | 1.6 | 1.5 | 1.6 | 1.7 | 1.6 |
| Kuwait | 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 |
| Libya | 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 | 1.2 | 1.2 | 1.2 | 1.2 |
| Malaysia | 0.5 | 0.5 | 0.5 | 0.4 | 0.4 | 0.4 | 0.5 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| Mexico | 1.8 | 1.7 | 1.7 | 1.6 | 1.6 | 1.6 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 |
| Nigeria | 1.6 | 1.7 | 1.8 | 1.6 | 1.4 | 1.3 | 1.5 | 1.4 | 1.3 | 1.3 | 1.2 | 1.3 | 1.3 | 1.4 | 1.4 | 1.4 | 1.4 |
| Oman | 0.9 | 8.0 | 0.9 | 8.0 | 0.7 | 0.7 | 0.8 | 0.7 | 0.7 | 0.8 | 0.8 | 0.8 | 0.8 | 8.0 | 0.9 | 0.9 | 0.9 |
| Russia | 10.4 | 10.4 | 10.4 | 9.2 | 8.9 | 9.1 | 9.4 | 9.3 | 9.5 | 9.7 | 9.9 | 9.6 | 10.1 | 10.2 | 10.2 | 10.2 | 10.2 |
| Saudi Arabia | 10.3 | 9.9 | 9.8 | 9.3 | 8.8 | 9.0 | 9.2 | 8.5 | 8.5 | 9.6 | 9.9 | 9.1 | 10.2 | 10.6 | 10.9 | 11.0 | 10.7 |
| South 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 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| Sudan | 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 |
| UAE | 3.0 | 3.2 | 3.2 | 2.9 | 2.8 | 2.5 | 2.9 | 2.6 | 2.6 | 2.8 | 2.9 | 2.7 | 2.9 | 3.0 | 3.1 | 3.2 | 3.1 |
| Venezuela | 1.4 | 0.9 | 0.8 | 0.5 | 0.4 | 0.4 | 0.5 | 0.5 | 0.5 | 0.6 | 0.8 | 0.6 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| OPEC+ Crude | 47.8 | 45.9 | 44.6 | 40.2 | 38.2 | 39.3 | 40.6 | 39.9 | 40.5 | 41.9 | 43.3 | 41.4 | 44.2 | 45.1 | 45.9 | 46.3 | 45.4 |
| OPEC+ NGLs & Condensate | 7.4 | 7.4 | 7.5 | 7.1 | 7.1 | 7.3 | 7.3 | 7.4 | 7.5 | 7.4 | 7.6 | 7.5 | 7.7 | 7.8 | 7.9 | 7.9 | 7.8 |
| OPEC+ Nonconventionals Total OPEC+ | 0.1 55.3 | 0.1 53.4 | 0.1 52.1 | 0.1 47.5 | 0.1 45.4 | 0.1 46.7 | 0.1 47.9 | 0.1 47.5 | 0.1 48.0 | 0.1 | 0.1 50.9 | 0.1 49.0 | 0.1 52.0 | 0.1 53.1 | 0.1 53.9 | 0.1 54.4 | 0.1 53.4 |
| Total Supply Oil | 100.3 | 100.5 | 100.3 | 91.7 | 91.0 | 92.2 | 93.8 | 92.3 | 94.1 | 49.4 96.4 | 98.2 | 95.3 | 99.3 | 101.0 | 102.6 | 103.0 | 101.5 |
| Memo items: | | | | VIII | | 72.2 | 30.0 | 32.0 | | - 55.7 | UJIL | - 55.0 | | .51.0 | . 52.0 | | . 31.0 |

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

OECD Americas excludes Mexico
 FSU excludes Russia, Kazakhstan, Azerbaijan

Other Asia excludes Brunei, Malaysia
 Middle East excludes Oman, Bahrain
 Africa excludes Sudan, South Sudan

| | | | | | | | Table 2 | 2 | | | | | | | | |
|---------------------------------|-----------------------|------------------|------------------------|------------------|----------------|-----------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| | | | | SU | MMA | RY OF | GLOBA | AL OIL | . DEM | AND | | | | | | |
| | 2019 | 1Q20 | 2Q20 | 3Q20 | 4Q20 | 2020 | 1Q21 | 2Q21 | 3Q21 | 4Q21 | 2021 | 1Q22 | 2Q22 | 3Q22 | 4Q22 | 2022 |
| Demand (mb/d) | 05.47 | 24.04 | 40.05 | 00.04 | 00.00 | 00.44 | 00.70 | 0.4.00 | 04.74 | 04.70 | 2444 | 24.00 | 05.40 | 05.55 | 05.00 | 05.00 |
| Americas Europe | 25.47 14.31 | 24.31 13.33 | 19.85 11.02 | 22.64 12.87 | 22.98 12.51 | 22.44 12.43 | 22.73 11.91 | 24.33 12.63 | 24.74 13.84 | 24.72 13.69 | 24.14 13.03 | 24.22 13.10 | 25.12 13.55 | 25.55 13.98 | 25.09 13.70 | 25.00 13.58 |
| Asia Oceania | 7.93 | 7.86 | 6.60 | 6.75 | 7.35 | 7.14 | 7.67 | 7.04 | 7.11 | 7.73 | 7.39 | 7.94 | 7.18 | 7.38 | 7.88 | 7.59 |
| Total OECD | 47.72 | 45.50 | 37.46 | 42.26 | 42.84 | 42.02 | 42.30 | 44.00 | 45.70 | 46.13 | 44.55 | 45.25 | 45.85 | 46.90 | 46.67 | 46.17 |
| Asia | 27.54 | 25.33 | 25.47 | 26.86 | 28.28 | 26.49 | 28.10 | 28.15 | 27.87 | 29.12 | 28.31 | 29.25 | 29.73 | 29.32 | 29.98 | 29.57 |
| Middle East Americas | 8.24 6.29 | 7.90 5.77 | 7.12 5.03 | 8.12 5.72 | 7.76 5.90 | 7.73 5.61 | 7.73 5.78 | 7.96 5.85 | 8.38 6.18 | 7.85 6.11 | 7.98 5.98 | 7.92 5.88 | 8.04 5.99 | 8.48 6.17 | 7.95 6.15 | 8.10 6.05 |
| FSU | 4.72 | 4.57 | 4.09 | 4.67 | 4.67 | 4.50 | 4.56 | 4.68 | 4.93 | 4.95 | 4.78 | 4.66 | 4.82 | 5.14 | 5.08 | 4.93 |
| Africa Europe | 4.25 0.78 | 4.13 0.74 | 3.47 0.69 | 3.74 0.77 | 3.92 0.77 | 3.82 0.74 | 4.08 0.74 | 3.99 0.74 | 3.92 0.83 | 4.04 0.76 | 4.01 0.77 | 4.11 0.74 | 4.11 0.77 | 4.03 0.82 | 4.18 0.78 | 4.10 0.78 |
| Total Non-OECD | 51.83 | 48.45 | 45.88 | 49.87 | 51.30 | 48.88 | 51.00 | 51.37 | 52.12 | 52.83 | 51.83 | 52.56 | 53.47 | 53.96 | 54.11 | 53.53 |
| World | 99.55 | 93.95 | 83.34 | 92.14 | 94.13 | 90.90 | 93.30 | 95.37 | 97.82 | 98.96 | 96.38 | 97.82 | 99.32 | 100.86 | 100.78 | 99.71 |
| of which: | | | | | | | | | | | | | | | | |
| United States ¹ | 20.46 | 19.50 | 16.07 | 18.45 | 18.72 | 18.19 | 18.45 | 20.03 | 20.21 | 20.12 | 19.71 | 19.63 | 20.38 | 20.54 | 20.24 | 20.20 |
| Europe five ² | 8.20 | 7.62 | 5.93 | 7.11 | 7.03 | 6.92 | 6.68 | 7.08 | 7.67 | 7.70 | 7.29 | 7.50 | 7.58 | 7.77 | 7.71 | 7.64 |
| China Japan | 13.55 3.74 | 11.86 3.78 | 14.21 2.93 | 14.63 3.06 | 14.85 3.53 | 13.89 3.33 | 14.61 3.73 | 15.32 3.08 | 15.32 3.18 | 15.36 3.66 | 15.16 3.41 | 15.16 3.91 | 15.75 3.21 | 15.80 3.31 | 15.79 3.70 | 15.63 3.53 |
| India | 4.99 | 4.92 | 3.89 | 4.25 | 5.10 | 4.54 | 4.99 | 4.45 | 4.48 | 4.94 | 4.72 | 5.10 | 5.10 | 4.75 | 5.18 | 5.03 |
| Russia | 3.57 | 3.52 | 3.08 | 3.58 | 3.50 | 3.42 | 3.49 | 3.59 | 3.79 | 3.73 | 3.65 | 3.57 | 3.68 | 3.97 | 3.84 | 3.77 |
| Brazil | 3.08 | 2.95 | 2.64 | 2.99 | 3.13 | 2.93 | 2.97 | 2.98 | 3.19 | 3.13 | 3.07 | 2.97 | 2.97 | 3.08 | 3.10 | 3.03 |
| Saudi Arabia | 3.12 | 2.93 | 2.77 | 3.30 | 3.01 | 3.00 | 2.77 | 3.07 | 3.29 | 2.97 | 3.03 | 2.81 | 2.92 | 3.28 | 2.91 | 2.98 |
| Canada Korea | 2.51 2.60 | 2.42 2.53 | 1.97 2.45 | 2.25 2.36 | 2.14 | 2.19 2.44 | 2.12 2.55 | 2.16 2.50 | 2.41 2.59 | 2.42 | 2.28 2.57 | 2.32 2.59 | 2.34 | 2.60 2.63 | 2.51 2.66 | 2.44 2.60 |
| Mexico | 1.96 | 1.85 | 1.40 | 1.50 | 1.58 | 1.58 | 1.62 | 1.63 | 1.56 | 1.64 | 1.61 | 1.73 | 1.86 | 1.88 | 1.81 | 1.82 |
| Iran | 1.93 | 2.01 | 1.78 | 1.81 | 1.85 | 1.86 | 1.97 | 1.89 | 1.89 | 1.89 | 1.91 | 2.00 | 1.94 | 1.93 | 1.91 | 1.95 |
| Total | 69.70 | 65.89 | 59.10 | 65.29 | 66.86 | 64.29 | 65.96 | 67.78 | 69.60 | 70.20 | 68.40 | 69.29 | 70.25 | 71.52 | 71.36 | 70.62 |
| % of World | 70.0% | 70.1% | 70.9% | 70.9% | 71.0% | 70.7% | 70.7% | 71.1% | 71.2% | 70.9% | 71.0% | 70.8% | 70.7% | 70.9% | 70.8% | 70.8% |
| Annual Change (% | | - | | | | | | | | | | | | | | |
| Americas | 0.2 0.0 | -2.9 | -21.6 -22.8 | -12.6 -12.7 | -10.3 | -11.9 -13.1 | -6.5 | 22.6 14.7 | 9.3 | 7.6 9.4 | 7.5 4.8 | 6.6 10.0 | 3.2 | 3.3 1.0 | 1.5 0.1 | 3.6 4.3 |
| Europe Asia Oceania | -1.0 | -5.4 -6.0 | -12.6 | -12.7 | -11.6 -9.6 | -10.0 | -10.7 -2.5 | 6.7 | 7.5 5.4 | 5.1 | 3.5 | 3.5 | 7.2 2.0 | 3.7 | 1.9 | 2.8 |
| Total OECD | -0.0 | -4.2 | -20.5 | -12.6 | -10.6 | -11.9 | -7.0 | 17.5 | 8.1 | 7.7 | 6.0 | 7.0 | 4.2 | 2.6 | 1.2 | 3.7 |
| Asia | 2.0 | -6.9 | -7.7 | -1.5 | 0.8 | -3.8 | 10.9 | 10.5 | 3.8 | 3.0 | 6.9 | 4.1 | 5.6 | 5.2 | 3.0 | 4.5 |
| Middle East | 0.2 | -1.5 | -11.8 | -6.2 | -5.5 | -6.3 | -2.2 | 11.8 | 3.2 | 1.1 | 3.3 | 2.4 | 1.1 | 1.2 | 1.3 | 1.5 |
| Americas FSU | 0.6 0.8 | -6.5 1.6 | -19.8 -11.8 | -10.4 -4.7 | -6.8 -3.7 | -10.9 -4.7 | 0.2 -0.3 | 16.2 14.5 | 8.1 5.7 | 3.4 6.1 | 6.7 6.3 | 1.7 2.3 | 2.5 3.0 | -0.2 4.1 | 0.7 2.5 | 1.1 3.0 |
| Africa | 0.8 | -4.3 | -11.6 | -9.6 | -8.0 | -10.2 | -0.3 | 14.9 | 4.8 | 3.1 | 5.0 | 0.7 | 2.9 | 2.6 | 3.4 | 2.4 |
| Europe | 3.4 | -1.8 | -12.0 | -3.6 | -3.1 | -5.2 | 0.6 | 6.9 | 7.5 | -0.5 | 3.6 | 0.2 | 4.2 | -0.4 | 1.7 | 1.4 |
| Total Non-OECD | 1.4 | -5.0 | -11.2 | -4.4 | -2.3 | -5.7 | 5.3 | 12.0 | 4.5 | 3.0 | 6.0 | 3.1 | 4.1 | 3.5 | 2.4 | 3.3 |
| World | 0.7 | -4.6 | -15.7 | -8.3 | -6.2 | -8.7 | -0.7 | 14.4 | 6.2 | 5.1 | 6.0 | 4.8 | 4.1 | 3.1 | 1.8 | 3.4 |
| Annual Change (m | b/d) | | | | | | | | | | | | | | | |
| Americas | 0.06 | -0.73 | -5.48 | -3.26 | -2.65 | -3.03 | -1.58 | 4.48 | 2.10 | 1.74 | 1.69 | 1.49 | 0.79 | 0.81 | 0.38 | 0.86 |
| Europe | 0.00 | -0.76 -0.50 | -3.24 -0.95 | -1.87 -0.95 | -1.64 -0.78 | -1.88 | -1.42 -0.19 | 1.62 0.44 | 0.97 0.36 | 1.18 0.38 | 0.59 0.25 | 1.19 0.27 | 0.92 0.14 | 0.14 0.26 | 0.01 0.15 | 0.56 0.21 |
| Asia Oceania Total OECD | -0.08 -0.01 | -1.99 | -0.95 - 9.68 | -6.08 | -5.06 | -0.80 -5.70 | -0.19 -3.20 | 6.54 | 3.44 | 3.30 | 2.53 | 2.95 | 1.85 | 1.20 | 0.15 | 1.63 |
| Asia | 0.55 | -1.89 | -2.14 | -0.42 | 0.24 | -1.05 | 2.77 | 2.68 | 1.02 | 0.84 | 1.82 | 1.15 | 1.58 | 1.45 | 0.86 | 1.26 |
| Middle East | 0.02 | -0.12 | -0.95 | -0.54 | -0.45 | -0.52 | -0.17 | 0.84 | 0.26 | 0.09 | 0.25 | 0.18 | 0.08 | 0.10 | 0.10 | 0.12 |
| Americas FSU | 0.04 0.04 | -0.40 0.07 | -1.24 -0.55 | -0.67 -0.23 | -0.43 -0.18 | -0.68 -0.22 | 0.01 -0.02 | 0.82 0.59 | 0.47 0.26 | 0.20 0.29 | 0.37 0.28 | 0.10 0.10 | 0.15 0.14 | -0.01 0.20 | 0.04 0.12 | 0.07 0.14 |
| Africa | 0.03 | -0.18 | -0.82 | -0.40 | -0.34 | -0.44 | -0.05 | 0.52 | 0.18 | 0.12 | 0.19 | 0.03 | 0.12 | 0.10 | 0.14 | 0.10 |
| Europe | 0.03 | -0.01 | -0.09 | -0.03 | -0.02 | -0.04 | 0.00 | 0.05 | 0.06 | 0.00 | 0.03 | 0.00 | 0.03 | 0.00 | 0.01 | 0.01 |
| Total Non-OECD | 0.71 | -2.53 | -5.79 | -2.28 | -1.19 | -2.95 | 2.55 | 5.49 | 2.24 | 1.53 | 2.95 | 1.57 | 2.10 | 1.84 | 1.29 | 1.70 |
| World | 0.69 | | -15.47 | -8.36 | -6.26 | -8.65 | -0.65 | 12.03 | 5.68 | 4.83 | 5.48 | 4.52 | 3.95 | 3.04 | 1.82 | 3.32 |
| Revisions to Oil De Americas | emand fror 0.00 | n Last M 0.00 | 0.00 | Report (0.00 | (mb/d) 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | -0.15 | -0.03 | -0.05 | -0.02 | -0.08 | -0.05 | -0.05 |
| Europe | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.32 | 0.08 | 0.08 | 0.02 | 0.07 | 0.19 | 0.10 |
| Asia Oceania | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -0.05 | -0.01 | 0.00 | -0.01 | -0.01 | -0.02 | -0.01 |
| Total OECD | -0.00 | -0.00 | -0.00 | -0.00 | -0.00 | -0.00 | -0.00 | -0.00 | 0.03 | 0.11 | 0.03 | 0.03 | 0.04 | -0.01 | 0.12 | 0.05 |
| Asia Middle East | 0.00 | 0.01 0.05 | 0.04 | 0.02 -0.05 | 0.02 -0.02 | 0.02 | 0.00 0.03 | 0.07 0.13 | 0.09 | 0.20 -0.03 | 0.09 0.05 | -0.14 0.08 | -0.06 0.11 | -0.06 0.10 | 0.27 | 0.00 |
| Americas | 0.00 | 0.00 | 0.03 | 0.02 | 0.02 | 0.00 | 0.03 | 0.13 | 0.00 | 0.00 | 0.05 | -0.02 | -0.01 | 0.10 | 0.03 | -0.01 |
| FSU | 0.00 | 0.00 | 0.04 | 0.02 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.06 | 0.02 | -0.03 | 0.02 | 0.02 | 0.05 | 0.01 |
| Africa Europe | 0.00 | 0.00 | 0.06 0.01 | 0.02 | 0.00 | 0.02 | 0.00 0.00 | 0.00 | 0.00 | 0.01 -0.01 | 0.00 | 0.02 0.01 | 0.07 0.01 | 0.03 | 0.03 -0.01 | 0.04 |
| Total Non-OECD | 0.00 | 0.06 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.24 | 0.00 | -0.09 | 0.01 | 0.08 | 0.36 | 0.00 |
| World | 0.00 | 0.05 | 0.22 | 0.02 | 0.00 | 0.07 | 0.02 | 0.20 | 0.18 | 0.35 | 0.19 | -0.06 | 0.18 | 0.07 | 0.48 | 0.17 |
| Revisions to Oil De | | | | | | | | | | | | | | | | |
| World | 0.00 | 0.05 | 0.22 | 0.02 | 0.00 | 0.07 | -0.03 | -0.02 | 0.16 | 0.34 | 0.11 | -0.08 | -0.02 | -0.11 | 0.14 | -0.02 |
| 1 IIS trauree evaluate IIS te | | | | | | | | | | | | | | | | |

US figures exclude US territories.
 France, Germany, Italy, Spain and UK

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Table 2a OECD REGIONAL OIL DEMAND1 (million barrels per day)

Latest month vs. Aug 21 Sep 21 Oct 21 2 2019 2020 4Q20 1Q21 2Q21 3Q21 Sep 21 Oct 20 Americas 3.40 3.75 3.67 3.37 -0.30 -0.03 LPG and ethane 3.46 3.66 3.50 3.54 3.64 0.25 0.25 0.26 0.23 0.27 0.26 0.26 -0.06 -0.05 Naphtha 0.26 0.20 11 04 9 53 9 55 9.38 10.57 10 74 10.73 10.51 10.61 0.10 0.77 Motor gasoline Jet and kerosene 2.05 1.23 1.24 1.28 1.49 1.72 1.78 1.69 1.65 -0.03 0.51 Gasoil/diesel oil 5.37 4.92 5.08 5.08 5.03 4.99 5.02 5.20 5.01 -0.18 -0.18 Residual fuel oil 0.40 0.09 0.54 0.41 0.54 0.51 0.55 0.57 0.52 0.56 0.03 2.66 2.88 0.03 0.36 Other products 2.82 2.70 2.56 2.95 2.94 3.06 2.92 Total 25.47 22.44 22.98 22.73 24.33 24.74 25.06 24.73 24.33 -0.40 1.47 Europe LPG and ethane 1.20 1.08 1.06 1.12 1.06 1.10 1.09 1.01 1.04 0.04 -0.02 Naphtha 1.02 1.07 1.16 1.23 1.02 1.11 1.12 1.17 1.21 0.04 0.12 2.04 0.17 Motor gasoline 1.75 1.72 1.57 1.92 2.19 2.19 2.15 2.07 -0.08 0.65 Jet and kerosene 1.56 0.73 0.61 0.67 1.01 1.04 1.05 1.07 0.02 0.40 Gasoil/diesel oil 6.46 5.96 6.07 5.70 6.13 6.51 6.31 6.84 6.74 -0.10 0.47 Residual fuel oil 0.84 0.68 0.68 0.69 0.69 0.73 0.71 0.75 0.69 -0.06 -0.01 Other products 1.20 1.15 1.17 1.00 1.14 1.19 1.14 1.26 1.28 0.02 0.03 12.63 12.43 13.84 13.61 -0.12 Total 14.31 12.51 11.91 14.22 14.10 1.15 Asia Oceania LPG and ethane 0.82 0.78 0.79 0.86 0.77 0.73 0.70 0.74 0.70 -0.04 -0.03 1.98 1.82 1.75 1.97 1.86 2.01 2.13 -0.12 0.31 Naphtha 2.02 2.01 Motor gasoline 1.52 1.35 1.42 1.32 1.37 1.36 1.37 1.35 1.33 -0.02 -0.02 0.69 0.82 0.47 0.43 0.41 0.58 0.09 Jet and kerosene 0.89 0.61 0.46 0.12 Gasoil/diesel oil 1.93 1.79 1.89 1.82 1.82 1.77 1.72 1.83 1.85 0.02 0.04 Residual fuel oil 0.43 0.44 0.50 0.04 0.04 0.43 0.41 0.44 0.45 0.43 0.46 Other products 0.37 0.35 0.38 0.37 0.35 0.36 0.35 0.37 0.35 -0.02 -0.04 Total 7.93 7.14 7.35 7.66 7.04 7.11 6.99 7.30 7.28 -0.02 0.40 OECD LPG and ethane 5.41 5.32 5.59 5.64 5.33 5.38 5.42 5.42 5.12 -0.30 -0.08 Naphtha 3.26 3.15 3.16 3.43 3.16 3.38 3.39 3.56 3.42 -0.14 0.38 0.92 Motor gasoline 14.59 12.64 12.69 12.27 13.86 14.29 14.29 14.00 14.01 0.01 Jet and kerosene 4.50 2.57 2.58 2.71 2.62 3.16 3.23 3.20 3.30 0.10 1.01 Gasoil/diesel oil 13.75 12.67 13.04 12.61 12.98 13.27 13.05 13.86 13.60 -0.26 0.33 Residual fuel oil 1.81 1.51 1.53 1.73 1.60 1.73 1.73 1.70 1.72 0.02 0.12 4.25 Other products 4.40 4.16 3.92 4.45 4.50 4.55 4.51 4.54 0.03 0.35 -0.54 Total 47.72 42.02 42.84 42.30 44.00 45.70 45.67 46.25 45.71 3.03

¹ 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.
2 Latest official OECD submissions (MOS).

Table 2b OIL DEMAND IN SELECTED OECD COUNTRIES¹ (million barrels per day)

| | | | | | | | | | | Latest m | onth vs. |
|---------------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------------|----------------|---------------|
| | 2019 | 2020 | 4Q20 | 1Q21 | 2Q21 | 3Q21 | Aug 21 | Sep 21 | Oct 21 ² | Sep 21 | Oct 20 |
| United States ³ | | | | | | | | | | | |
| LPG and ethane | 2.63 | 2.74 | 3.01 | 2.85 | 2.76 | 2.73 | 2.80 | 2.83 | 2.62 | -0.20 | -0.09 |
| Naphtha | 0.21 | 0.18 | 0.19 | 0.16 | 0.21 | 0.20 | 0.18 | 0.20 | 0.15 | -0.05 | -0.04 |
| Motor gasoline | 9.27 | 8.05 | 8.06 | 8.00 | 9.07 | 9.13 | 9.11 | 8.97 | 8.95 | -0.02 | 0.63 0.44 |
| Jet and kerosene Gasoil/diesel oil | 1.75 4.08 | 1.08 3.78 | 1.10 3.94 | 1.14 3.97 | 1.34 3.93 | 1.52 3.87 | 1.58 3.89 | 1.50 4.08 | 1.45 3.89 | -0.05 -0.18 | -0.15 |
| Residual fuel oil | 0.27 | 0.21 | 0.22 | 0.26 | 0.25 | 0.33 | 0.35 | 0.32 | 0.38 | 0.06 | 0.12 |
| Other products | 2.24 | 2.13 | 2.21 | 2.05 | 2.47 | 2.43 | 2.60 | 2.34 | 2.45 | 0.11 | 0.36 |
| Total | 20.46 | 18.19 | 18.72 | 18.45 | 20.03 | 20.21 | 20.51 | 20.22 | 19.89 | -0.33 | 1.28 |
| Japan | | | | | | | | | | | |
| LPG and ethane | 0.43 | 0.41 | 0.42 | 0.50 | 0.40 | 0.37 | 0.33 | 0.39 | 0.35 | -0.04 | 0.00 |
| Naphtha Mater gooding | 0.74 0.85 | 0.68 0.76 | 0.71 0.78 | 0.74 | 0.68 | 0.70 | 0.69 | 0.78 | 0.74 0.74 | -0.04 | 0.07 |
| Motor gasoline Jet and kerosene | 0.65 | 0.76 | 0.76 | 0.71 0.55 | 0.71 0.24 | 0.78 0.21 | 0.79 0.21 | 0.76 0.23 | 0.74 | -0.02 0.10 | -0.02 0.05 |
| Diesel | 0.44 | 0.40 | 0.42 | 0.41 | 0.39 | 0.39 | 0.37 | 0.41 | 0.41 | 0.00 | 0.00 |
| Other gasoil | 0.33 | 0.30 | 0.33 | 0.35 | 0.28 | 0.27 | 0.26 | 0.29 | 0.31 | 0.02 | 0.01 |
| Residual fuel oil | 0.23 | 0.21 | 0.23 | 0.27 | 0.21 | 0.23 | 0.23 | 0.22 | 0.24 | 0.02 | 0.01 |
| Other products | 0.24 | 0.20 | 0.20 | 0.20 | 0.18 | 0.23 | 0.22 | 0.24 | 0.23 | -0.01 | 0.03 |
| Total | 3.74 | 3.33 | 3.53 | 3.73 | 3.08 | 3.18 | 3.11 | 3.32 | 3.35 | 0.03 | 0.15 |
| Germany | | | | | | | | | | | |
| LPG and ethane | 0.12 | 0.11 | 0.10 | 0.12 | 0.13 | 0.12 | 0.12 | 0.11 | 0.11 | 0.00 | 0.02 |
| Naphtha Motor gasoline | 0.27 0.50 | 0.29 0.45 | 0.32 0.44 | 0.35 0.40 | 0.31 0.44 | 0.32 0.48 | 0.31 0.49 | 0.35 0.48 | 0.36 0.47 | 0.02 -0.01 | 0.04 -0.02 |
| Jet and kerosene | 0.22 | 0.10 | 0.08 | 0.09 | 0.11 | 0.16 | 0.16 | 0.18 | 0.16 | -0.02 | 0.08 |
| Diesel | 0.76 | 0.71 | 0.71 | 0.60 | 0.71 | 0.77 | 0.76 | 0.77 | 0.77 | 0.01 | 0.00 |
| Other gasoil | 0.34 | 0.36 | 0.33 | 0.22 | 0.26 | 0.26 | 0.25 | 0.32 | 0.38 | 0.06 | 0.06 |
| Residual fuel oil | 0.06 | 0.05 | 0.05 | 0.05 | 0.04 | 0.05 | 0.05 | 0.05 | 0.05 | -0.01 | -0.01 |
| Other products | 0.08 | 0.08 | 0.07 | 0.05 | 0.06 | 0.07 | 0.07 | 0.09 | 0.09 | 0.00 | 0.00 |
| Total | 2.35 | 2.15 | 2.11 | 1.89 | 2.07 | 2.23 | 2.21 | 2.35 | 2.40 | 0.05 | 0.18 |
| Italy | 0.40 | 0.00 | 0.40 | 0.44 | 0.00 | 0.00 | 0.00 | 0.00 | 0.40 | 0.04 | 0.00 |
| LPG and ethane Naphtha | 0.10 0.11 | 0.09 0.10 | 0.10 0.12 | 0.11 0.11 | 0.09 0.10 | 0.09 0.09 | 0.09 0.10 | 0.09 0.10 | 0.10 0.10 | 0.01 0.01 | 0.00 -0.01 |
| Motor gasoline | 0.11 | 0.14 | 0.12 | 0.13 | 0.17 | 0.19 | 0.19 | 0.18 | 0.18 | 0.00 | 0.02 |
| Jet and kerosene | 0.11 | 0.04 | 0.04 | 0.02 | 0.04 | 0.07 | 0.07 | 0.06 | 0.05 | -0.01 | 0.01 |
| Diesel | 0.47 | 0.42 | 0.45 | 0.44 | 0.49 | 0.52 | 0.48 | 0.54 | 0.51 | -0.03 | 0.03 |
| Other gasoil | 0.07 | 0.06 | 0.07 | 0.05 | 0.06 | 0.07 | 0.06 | 0.07 | 0.07 | 0.00 | -0.01 |
| Residual fuel oil Other products | 0.06 0.15 | 0.06 0.14 | 0.06 0.15 | 0.05 0.14 | 0.05 0.16 | 0.06 0.16 | 0.06 0.12 | 0.06 0.17 | 0.06 0.17 | 0.00 0.00 | -0.01 0.01 |
| · | 1.26 | 1.05 | 1.13 | 1.04 | 1.15 | 1.25 | 1.19 | 1.29 | 1.24 | -0.05 | 0.04 |
| Total | 1.20 | 1.05 | 1.13 | 1.04 | 1.15 | 1.23 | 1.19 | 1.29 | 1.24 | -0.05 | 0.04 |
| France LPG and ethane | 0.14 | 0.11 | 0.11 | 0.12 | 0.13 | 0.11 | 0.12 | 0.10 | 0.08 | -0.01 | -0.02 |
| Naphtha | 0.14 | 0.11 | 0.14 | 0.12 | 0.13 | 0.11 | 0.12 | 0.10 | 0.16 | 0.02 | 0.02 |
| Motor gasoline | 0.20 | 0.17 | 0.17 | 0.18 | 0.20 | 0.24 | 0.24 | 0.24 | 0.22 | -0.02 | 0.02 |
| Jet and kerosene | 0.17 | 0.09 | 0.08 | 0.08 | 0.07 | 0.11 | 0.12 | 0.11 | 0.11 | 0.00 | 0.03 |
| Diesel | 0.76 | 0.67 | 0.69 | 0.68 | 0.72 | 0.78 | 0.73 | 0.80 | 0.78 | -0.02 | 0.02 |
| Other gasoil Residual fuel oil | 0.14 0.05 | 0.14 0.03 | 0.13 0.03 | 0.17 0.03 | 0.09 | 0.11 0.03 | 0.09 0.03 | 0.15 0.04 | 0.15 0.02 | 0.00 -0.02 | 0.03 -0.01 |
| Other products | 0.03 | 0.03 | 0.09 | 0.03 | 0.03 | 0.03 | 0.10 | 0.04 | 0.02 | -0.02 | -0.01 |
| Total | 1.69 | 1.42 | 1.44 | 1.47 | 1.45 | 1.63 | 1.56 | 1.70 | 1.63 | -0.07 | 0.06 |
| United Kingdom | | | | | | | | | | | |
| LPG and ethane | 0.13 | 0.13 | 0.12 | 0.13 | 0.09 | 0.10 | 0.10 | 0.10 | 0.10 | 0.00 | -0.03 |
| Naphtha | 0.03 | 0.02 | 0.01 | 0.01 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -0.01 |
| Motor gasoline | 0.29 | 0.22 | 0.23 | 0.20 | 0.26 | 0.28 | 0.28 | 0.29 | 0.30 | 0.01 | 0.05 |
| Jet and kerosene | 0.34 | 0.19 | 0.17 | 0.17 | 0.14 | 0.16 | 0.16 | 0.20 | 0.21 | 0.01 | 0.05 |
| Diesel Other gasoil | 0.52 0.14 | 0.43 0.11 | 0.46 0.11 | 0.42 0.11 | 0.50 0.14 | 0.50 0.14 | 0.50 0.14 | 0.53 0.14 | 0.49 0.13 | -0.05 -0.01 | 0.02 0.02 |
| Residual fuel oil | 0.02 | 0.02 | 0.02 | 0.02 | 0.01 | 0.02 | 0.02 | 0.02 | 0.02 | 0.00 | 0.00 |
| Other products | 0.12 | 0.10 | 0.10 | 0.09 | 0.11 | 0.11 | 0.12 | 0.11 | 0.10 | -0.01 | -0.01 |
| Total | 1.58 | 1.21 | 1.22 | 1.16 | 1.25 | 1.31 | 1.32 | 1.39 | 1.35 | -0.05 | 0.09 |
| Canada | | | | | | | | | | | |
| LPG and ethane | 0.39 | 0.37 | 0.37 | 0.46 | 0.40 | 0.45 | 0.47 | 0.48 | 0.40 | -0.08 | 0.09 |
| Naphtha | 0.02 | 0.03 | 0.04 | 0.03 | 0.03 | 0.03 | 0.04 | 0.03 | 0.02 | -0.01 | -0.01 |
| Motor gasoline Jet and kerosene | 0.88 0.17 | 0.75 0.07 | 0.74 0.06 | 0.67 0.05 | 0.77 0.05 | 0.86 0.10 | 0.89 0.10 | 0.81 0.10 | 0.86 0.09 | 0.05 0.00 | 0.10 0.03 |
| Diesel | 0.17 | 0.07 | 0.06 | 0.05 | 0.05 | 0.10 | 0.10 | 0.10 | 0.09 | -0.01 | 0.03 |
| Other gasoil | 0.38 | 0.33 | 0.35 | 0.32 | 0.32 | 0.36 | 0.37 | 0.38 | 0.38 | -0.01 | 0.04 |
| Residual fuel oil | 0.04 | 0.04 | 0.03 | 0.04 | 0.03 | 0.02 | 0.02 | 0.02 | 0.02 | 0.00 | -0.01 |
| Other products | 0.36 | 0.33 | 0.29 | 0.28 | 0.28 | 0.32 | 0.27 | 0.36 | 0.27 | -0.08 | 0.01 |
| Total | 2.51 | 2.19 | 2.14 | 2.12 | 2.16 | 2.41 | 2.43 | 2.45 | 2.31 | -0.14 | 0.25 |

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.

2 Latest official OECD submissions (MOS).

3 US figures exclude US territories.

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| | | | | Table 3 | 3 | | | | | | |
|--|----------------------|----------------------|----------------------|-----------------------------------|----------------------|----------------|----------------|----------------------|---------------------|---------------------|----------------------|
| | | | WORI | _D OIL PRO (million barrels pe | | ION | | | | | |
| | 2020 | 2021 | 2022 | 3Q21 | 4Q21 | 1Q22 | 2Q22 | 3Q22 | Oct 21 | Nov 21 | Dec 21 |
| OPEC | | | | | | | | | | | |
| Crude Oil Saudi Arabia | 9.21 | 9.12 | | 9.57 | 9.90 | | | | 9.80 | 9.89 | 10.01 |
| Iran | 2.00 | 2.42 | | 2.47 | 2.48 | | | | 2.48 | 2.47 | 2.50 |
| Iraq | 4.05 | 4.03 | | 4.06 | 4.23 | | | | 4.16 | 4.25 | 4.28 |
| UAE | 2.86 | 2.72 | | 2.76 | 2.86 | | | | 2.83 | 2.86 | 2.88 |
| Kuwait Angola | 2.41 1.27 | 2.42 1.12 | | 2.44 1.11 | 2.53 1.12 | | | | 2.50 1.11 | 2.53 1.11 | 2.55 1.15 |
| Nigeria | 1.49 | 1.31 | | 1.27 | 1.12 | | | | 1.23 | 1.29 | 1.13 |
| Libya | 0.35 | 1.15 | | 1.16 | 1.12 | | | | 1.16 | 1.14 | 1.05 |
| Algeria | 0.90 | 0.91 | | 0.92 | 0.96 | | | | 0.95 | 0.96 | 0.97 |
| Congo Gabon | 0.30 0.20 | 0.27 0.18 | | 0.27 0.18 | 0.27 0.19 | | | | 0.27 0.17 | 0.26 0.19 | 0.28 0.21 |
| Equatorial Guinea | 0.20 | 0.10 | | 0.18 | 0.19 | | | | 0.17 | 0.19 | 0.21 |
| Venezuela | 0.53 | 0.61 | | 0.59 | 0.76 | | | | 0.71 | 0.78 | 0.80 |
| Total Crude Oil | 25.69 | 26.36 | | 26.90 | 27.75 | | | | 27.45 | 27.80 | 27.99 |
| of which Neutral Zone ¹ Total NGLs ² | 0.11 5.10 | 0.25 5.19 | 5.40 | 0.24 5.22 | 0.28 5.22 | 5.30 | 5.40 | 5.44 | 0.27 5.22 | 0.27 5.22 | 0.30 5.22 |
| Total OPEC ³ | 30.78 | 31.55 | | 32.12 | 32.96 | | | | 32.67 | 33.02 | 33.21 |
| NON-OPEC ⁴ | | | | | | | | | | | |
| OECD | 00.05 | 04.55 | 05.00 | 242: | 05.00 | 05.07 | 05.10 | 05.00 | 05.1- | 05 15 | 05.00 |
| Americas United States | 23.85 16.56 | 24.32 16.70 | 25.60 17.72 | 24.34 16.75 | 25.39 17.55 | 25.27 17.40 | 25.40 17.69 | 25.69 17.77 | 25.10 17.28 | 25.45 17.61 | 25.63 17.75 |
| Mexico | 1.93 | 1.95 | 2.01 | 1.95 | 1.96 | 1.96 | 1.99 | 2.03 | 1.97 | 1.97 | 1.95 |
| Canada | 5.35 | 5.65 | 5.86 | 5.63 | 5.87 | 5.90 | 5.71 | 5.88 | 5.84 | 5.85 | 5.92 |
| 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 | 3.39 | 3.45 | 3.38 | 3.45 | 3.55 | 3.37 | 3.43 | 3.41 | 3.43 | 3.51 |
| UK Norway | 1.08 2.01 | 0.90 2.04 | 0.94 2.08 | 0.88 2.05 | 0.94 2.05 | 0.98 2.12 | 0.94 2.00 | 0.92 2.07 | 0.89 2.06 | 0.97 2.00 | 0.98 2.08 |
| Others | 0.48 | 0.45 | 0.44 | 0.45 | 0.46 | 0.44 | 0.44 | 0.44 | 0.46 | 0.46 | 0.45 |
| Asia Oceania | 0.52 | 0.51 | 0.52 | 0.54 | 0.54 | 0.53 | 0.53 | 0.52 | 0.54 | 0.55 | 0.55 |
| Australia Others | 0.45 | 0.44 | 0.46 | 0.46 0.08 | 0.48 | 0.47 0.07 | 0.46 0.07 | 0.46 | 0.47 0.07 | 0.48 0.06 | 0.48 |
| Total OECD | 0.07 27.93 | 0.07 28.22 | 0.06 29.58 | 28.26 | 0.07 29.38 | 29.35 | 29.30 | 0.06 29.64 | 29.04 | 29.42 | 0.07 29.69 |
| NON-OECD | 21.55 | 20.22 | 23.30 | 20.20 | 25.50 | 25.55 | 25.50 | 23.04 | 23.04 | 23.42 | 23.03 |
| Former USSR | 13.50 | 13.77 | 14.56 | 13.67 | 14.30 | 14.40 | 14.48 | 14.59 | 14.21 | 14.34 | 14.35 |
| Russia | 10.61 | 10.86 | 11.53 | 10.89 | 11.23 | 11.38 | 11.52 | 11.58 | 11.20 | 11.25 | 11.25 |
| Azerbaijan | 0.70 | 0.70 | 0.72 | 0.71 | 0.71 | 0.71 | 0.72 | 0.72 | 0.71 | 0.71 | 0.72 |
| Kazakhstan | 1.84 | 1.85 | 1.94 | 1.70 | 1.99 | 1.94 | 1.87 | 1.92 | 1.94 | 2.02 | 2.02 |
| Others Asia | 0.36 6.99 | 0.36 6.93 | 0.37 6.89 | 0.36 6.88 | 0.36 6.86 | 0.37 6.93 | 0.37 6.91 | 0.37 6.87 | 0.36 6.80 | 0.36 6.88 | 0.36 6.90 |
| China | 3.97 | 4.07 | 4.10 | 4.08 | 4.06 | 4.12 | 4.11 | 4.10 | 4.04 | 4.07 | 4.08 |
| Malaysia | 0.60 | 0.57 | 0.59 | 0.53 | 0.55 | 0.59 | 0.59 | 0.59 | 0.53 | 0.56 | 0.57 |
| India | 0.75 | 0.73 | 0.71 | 0.73 | 0.72 | 0.72 | 0.71 | 0.70 | 0.72 | 0.72 | 0.72 |
| Indonesia | 0.73 | 0.68 | 0.65 | 0.68 | 0.67 | 0.66 | 0.66 | 0.65 | 0.67 | 0.67 | 0.67 |
| Others Europe | 0.93 0.12 | 0.88 0.11 | 0.83 0.10 | 0.86 0.11 | 0.85 0.11 | 0.84 0.11 | 0.83 0.11 | 0.83 0.10 | 0.84 0.11 | 0.86 0.11 | 0.85 0.11 |
| Americas | 5.32 | 5.31 | 5.52 | 5.44 | 5.23 | 5.41 | 5.48 | 5.57 | 5.23 | 5.33 | 5.13 |
| Brazil | 3.04 | 3.01 | 3.16 | 3.10 | 2.96 | 3.08 | 3.14 | 3.19 | 2.88 | 2.97 | 3.02 |
| Argentina | 0.61 | 0.64 | 0.68 | 0.64 | 0.67 | 0.68 | 0.68 | 0.68 | 0.66 | 0.68 | 0.68 |
| Colombia | 0.79 | 0.74 | 0.72 | 0.75 | 0.75 | 0.74 | 0.73 | 0.72 | 0.76 | 0.75 | 0.75 |
| Ecuador Others | 0.48 0.40 | 0.48 0.44 | 0.47 0.49 | 0.49 0.44 | 0.40 0.44 | 0.48 0.44 | 0.48 0.46 | 0.47 0.51 | 0.49 0.44 | 0.49 0.44 | 0.24 0.44 |
| Middle East | 3.01 | 3.09 | 3.24 | 3.10 | 3.13 | 3.21 | 3.23 | 3.25 | 3.11 | 3.13 | 3.15 |
| Oman | 0.96 | 0.98 | 1.08 | 0.98 | 1.01 | 1.05 | 1.07 | 1.10 | 1.00 | 1.01 | 1.02 |
| Qatar | 1.77 | 1.82 | 1.85 | 1.82 | 1.83 | 1.85 | 1.85 | 1.85 | 1.83 | 1.83 | 1.83 |
| Others Africa | 0.28 1.39 | 0.29 1.31 | 0.30 1.27 | 0.29 1.30 | 0.29 1.29 | 0.31 1.29 | 0.31 1.25 | 0.30 1.27 | 0.28 1.28 | 0.30 1.29 | 0.30 1.29 |
| Egypt | 0.60 | 0.57 | 0.56 | 0.56 | 0.56 | 0.56 | 0.56 | 0.56 | 0.56 | 0.56 | 0.56 |
| Others | 0.79 | 0.74 | 0.71 | 0.73 | 0.73 | 0.73 | 0.70 | 0.72 | 0.72 | 0.73 | 0.73 |
| Total Non-OECD | 30.33 | 30.52 | 31.58 | 30.49 | 30.91 | 31.34 | 31.46 | 31.65 | 30.75 | 31.08 | 30.92 |
| Processing gains ⁵ Global biofuels | 2.11 2.63 | 2.25 2.74 | 2.38 2.99 | 2.34 3.19 | 2.32 2.65 | 2.38 2.38 | 2.38 3.13 | 2.38 3.43 | 2.27 2.88 | 2.33 2.64 | 2.37 2.44 |
| TOTAL NON-OPEC | 63.01 | 63.74 | 66.53 | 64.28 | 65.27 | 65.45 | 66.27 | 67.10 | 64.93 | 65.48 | 65.42 |
| TOTAL SUPPLY | 93.79 | 95.29 | | 96.40 | 98.24 | | | | 97.60 | 98.50 | 98.63 |

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 3 | a | | | | | | |
|---|--------------|--------------|--------------|--------------|--------------|--------------|----------------|--------------|--------------|--------------|--------------|
| | | OIL | SUPP | LY IN OEC | D COU | INTRIE | S ¹ | | | | |
| | 2020 | 2021 | 2022 | 3Q21 | 4Q21 | 1Q22 | 2Q22 | 3Q22 | Oct 21 | Nov 21 | Dec 21 |
| United States | | | | | | | | | | | |
| Alaska California | 448 404 | 440 371 | 460 355 | 406 368 | 455 364 | 469 360 | 466 357 | 432 353 | 437 365 | 456 364 | 472 363 |
| Texas | 4854 | 4788 | 5127 | 4875 | 5061 | 5064 | 5128 | 5140 | 4906 | 5171 | 5110 |
| Federal Gulf of Mexico ² | 1644 | 1711 | 1892 | 1486 | 1768 | 1875 | 1901 | 1914 | 1744 | 1733 | 1826 |
| Other US Lower 48 NGLs ³ | 3934 5175 | 3907 5384 | 4187 5592 | 3988 5521 | 4108 5686 | 4152 5375 | 4169 5557 | 4215 5604 | 4022 5713 | 4119 5660 | 4183 5685 |
| Other Hydrocarbons | 100 | 103 | 110 | 109 | 106 | 102 | 109 | 116 | 96 | 109 | 113 |
| Total | 16558 | 16703 | 17722 | 16753 | 17548 | 17397 | 17688 | 17774 | 17283 | 17612 | 17751 |
| Canada | | | | | | | | | | | |
| Alberta Light/Medium/Heavy | 423 | 436 | 447 | 438 | 458 | 452 | 449 | 446 | 458 | 463 | 452 |
| Alberta Bitumen Saskatchewan | 1718 435 | 1942 442 | 2194 431 | 1941 443 | 2045 440 | 2142 437 | 2184 433 | 2283 429 | 1987 441 | 2012 441 | 2135 439 |
| Other Crude | 490 | 454 | 404 | 456 | 421 | 392 | 405 | 405 | 418 | 416 | 429 |
| NGLs Other Upgraders | 949 219 | 1013 180 | 1036 181 | 1021 178 | 1013 201 | 1038 194 | 1027 163 | 1045 171 | 1012 204 | 1019 202 | 1008 196 |
| Synthetic Crudes | 1116 | 1184 | 1167 | 1148 | 1294 | 1249 | 1051 | 1102 | 1315 | 1300 | 1266 |
| Total | 5349 | 5651 | 5860 | 5627 | 5871 | 5904 | 5713 | 5880 | 5835 | 5853 | 5925 |
| Mexico | 4= | 4==- | 40.0 | .= | 470 : | 4700 | 4000 | 400: | , | 400: | 4700 |
| Crude NGLs | 1721 206 | 1778 170 | 1849 159 | 1784 165 | 1794 166 | 1796 163 | 1830 160 | 1864 158 | 1798 167 | 1804 166 | 1780 165 |
| Total | 1932 | 1953 | 2013 | 1955 | 1964 | 1964 | 1995 | 2026 | 1970 | 1975 | 1949 |
| UK | | 1000 | | | | 1001 | 1000 | | | 10.0 | 10.10 |
| Brent Fields | 35 | 24 | 16 | 12 | 18 | 20 | 19 | 12 | 16 | 19 | 19 |
| Forties Fields Ninian Fields | 297 31 | 212 23 | 219 16 | 209 23 | 248 19 | 242 17 | 209 17 | 201 16 | 244 21 | 252 19 | 247 16 |
| Flotta Fields | 51 | 52 | 52 | 57 | 54 | 54 | 50 | 52 | 52 | 56 | 54 |
| Other Fields NGLs | 575 88 | 525 68 | 563 73 | 508 69 | 532 74 | 573 74 | 569 74 | 567 73 | 482 73 | 551 75 | 563 76 |
| Total | 1078 | 904 | 939 | 879 | 944 | 980 | 937 | 921 | 887 | 971 | 976 |
| Norway ⁵ | 1070 | 304 | 333 | 0/3 | 344 | 300 | 331 | 321 | 007 | 371 | 3/0 |
| Ekofisk-Ula Area | 132 | 142 | 131 | 145 | 143 | 140 | 132 | 120 | 145 | 142 | 142 |
| Oseberg-Troll Area Statfjord-Gullfaks Area | 234 230 | 212 264 | 237 255 | 207 271 | 223 275 | 237 267 | 231 260 | 234 246 | 210 279 | 220 273 | 239 271 |
| Haltenbanken Area | 280 | 281 | 296 | 274 | 284 | 286 | 293 | 297 | 285 | 283 | 283 |
| Sleipner-Frigg Area Other Fields | 743 101 | 820 | 867 | 800 96 | 853 24 | 864 | 861 -21 | 854 | 852 58 | 845 -23 | 863 35 |
| NGLs | 288 | 67 252 | 57 234 | 260 | 245 | 83 244 | 239 | 93 227 | 232 | 257 | 246 |
| Total | 2007 | 2038 | 2078 | 2053 | 2047 | 2121 | 1995 | 2071 | 2062 | 1999 | 2079 |
| Other OECD Europe | | | | | | | | | | | |
| Denmark | 71 | 65 | 58 | 67 | 61 | 60 | 59 | 57 | 60 | 63 | 61 |
| Italy Turkey | 101 62 | 98 66 | 102 66 | 103 67 | 105 67 | 104 67 | 103 66 | 102 66 | 107 67 | 103 66 | 104 67 |
| Other | 90 | 99 | 90 | 99 | 96 | 93 | 91 | 89 | 98 | 96 | 93 |
| NGLs Non-Conventional Oils | 7 145 | 7 118 | 6 114 | 7 109 | 7 120 | 7 114 | 6 114 | 6 114 | 7 118 | 7 121 | 7 122 |
| Total | 475 | 452 | 437 | 452 | 456 | 444 | 440 | 435 | 457 | 457 | 453 |
| Australia | | | | | | | | | | | |
| Gippsland Basin | 8 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Cooper-Eromanga Basin Carnarvon Basin | 35 106 | 23 112 | 19 110 | 21 121 | 21 117 | 20 114 | 20 112 | 19 109 | 21 117 | 21 116 | 20 117 |
| Other Crude | 202 | 200 | 211 | 208 | 224 | 214 | 212 | 210 | 225 | 225 | 223 |
| NGLs | 102 | 102 | 113 | 108 | 113 | 114 | 114 | 113 | 104 | 119 | 116 |
| Total | 453 | 442 | 458 | 462 | 479 | 466 | 461 | 456 | 470 | 485 | 481 |
| Other OECD Asia Oceania New Zealand | 21 | 18 | 17 | 18 | 18 | 17 | 17 | 17 | 17 | 18 | 18 |
| Japan | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| NGLs Non-Conventional Oils | 11 34 | 11 37 | 9 35 | 11 43 | 10 34 | 10 35 | 9 35 | 9 35 | 11 33 | 10 33 | 10 37 |
| Total | 71 | 70 | 65 | 75 | 66 | 66 | 65 | 65 | 65 | 65 | 68 |
| OECD | | | | | | | | | | | |
| Crude Oil | 19480 | 19582 | 20739 | 19502 | 20302 | 20620 | 20631 | 20853 | 19940 | 20334 | 20634 |
| NGLs Non-Conventional Oils ⁴ | 6834 1618 | 7014 1627 | 7231 1612 | 7169 1592 | 7322 1760 | 7033 1698 | 7195 1477 | 7243 1542 | 7327 1772 | 7320 1770 | 7320 1738 |
| Total | | 28222 | | | 29385 | 29351 | 29303 | 29638 | 29039 | 29425 | 29692 |
| TOTAL | 27932 | 20222 | 29582 | 28264 | 29385 | 29351 | 29303 | 29038 | 29039 | 29425 | 29092 |

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.
 North 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.

| WORL | D OIL PI | RODUC | TION (In | Table cluding C million barrels | PEC+ b | oased o | n curren | nt agreen | nent') | | |
|--|----------------------|-------------------|---------------|---------------------------------------|----------------------|----------------------|----------------------|---------------|-------------------|----------------------|---------------|
| | | | | | · " | | 1001 | 1000 | | N 01 | 5 04 |
| | 2020 | 2021 | 2022 | 1Q21 | 2Q21 | 3Q21 | 4Q21 | 1Q22 | Oct 21 | Nov 21 | Dec 21 |
| OPEC+ | | | | | | | | | | | |
| Crude Oil | 0.00 | 0.91 | 0.00 | 0.07 | 0.89 | 0.00 | 0.06 | 0.00 | 0.05 | 0.96 | 0.97 |
| Algeria Angola | 0.90 1.27 | 1.12 | 0.99 1.11 | 0.87 1.14 | 1.12 | 0.92 1.11 | 0.96 1.12 | 0.98 1.14 | 0.95 1.11 | 1.11 | 1.15 |
| Angola Azerbaijan | 0.61 | 0.59 | 0.59 | 0.59 | 0.60 | 0.60 | 0.59 | 0.59 | 0.59 | 0.59 | 0.60 |
| Bahrain | 0.17 | 0.17 | 0.19 | 0.17 | 0.17 | 0.18 | 0.18 | 0.19 | 0.17 | 0.18 | 0.1 |
| Brunei | 0.08 | 0.08 | 0.09 | 0.09 | 0.09 | 0.08 | 0.08 | 0.09 | 0.08 | 0.08 | 0.09 |
| Congo | 0.30 | 0.27 | 0.29 | 0.28 | 0.27 | 0.27 | 0.27 | 0.29 | 0.27 | 0.26 | 0.2 |
| Equatorial Guinea | 0.11 | 0.10 | 0.12 | 0.11 | 0.11 | 0.10 | 0.08 | 0.12 | 0.08 | 0.07 | 0.1 |
| Gabon | 0.20 | 0.18 | 0.18 | 0.17 | 0.18 | 0.18 | 0.19 | 0.17 | 0.17 | 0.19 | 0.2 |
| Iran | 2.00 | 2.42 | 2.50 | 2.32 | 2.40 | 2.47 | 2.48 | 2.50 | 2.48 | 2.47 | 2.5 |
| raq | 4.05 | 4.03 | 4.51 | 3.88 | 3.94 | 4.06 | 4.23 | 4.33 | 4.16 | 4.25 | 4.2 |
| Kazakhstan | 1.50 | 1.52 | 1.59 | 1.49 | 1.52 | 1.41 | 1.66 | 1.59 | 1.65 | 1.66 | 1.6 |
| Kuwait | 2.41 | 2.42 | 2.72 | 2.34 | 2.35 | 2.44 | 2.53 | 2.61 | 2.50 | 2.53 | 2.5 |
| Libya | 0.35 | 1.15 | 1.16 | 1.15 | 1.15 | 1.16 | 1.12 | 1.08 | 1.16 | 1.14 | 1.0 |
| Malaysia | 0.46 | 0.42 | 0.44 | 0.45 | 0.43 | 0.39 | 0.40 | 0.44 | 0.38 | 0.41 | 0.4 |
| Mexico | 1.66 | 1.67 | 1.69 | 1.67 | 1.69 | 1.66 | 1.66 | 1.65 | 1.67 | 1.67 | 1.6 |
| Nigeria | 1.49 | 1.31 | 1.41 | 1.39 | 1.34 | 1.27 | 1.24 | 1.33 | 1.23 | 1.29 | 1.2 |
| Oman | 0.76 | 0.75 | 0.85 | 0.73 | 0.74 | 0.76 | 0.78 | 0.82 | 0.77 | 0.78 | 0.8 |
| Russia | 9.42 | 9.62 | 10.19 | 9.26 | 9.54 | 9.72 | 9.94 | 10.08 | 9.92 | 9.96 | 9.9 |
| Saudi Arabia | 9.21 | 9.12 | 10.67 | 8.47 | 8.53 | 9.57 | 9.90 | 10.23 | 9.80 | 9.89 | 10.0 |
| South Sudan | 0.16 | 0.15 | 0.15 | 0.14 | 0.16 | 0.16 | 0.15 | 0.15 | 0.16 | 0.16 | 0.1 |
| Sudan | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.0 |
| UAE | 2.86 | 2.72 | 3.08 | 2.61 | 2.64 | 2.76 | 2.86 | 2.95 | 2.83 | 2.86 | 2.8 |
| Venezuela | 0.53 | 0.61 | 0.82 | 0.55 | 0.55 | 0.59 | 0.76 | 0.82 | 0.71 | 0.78 | 0.8 |
| Total Crude Oil of which Neutral Zone | 40.57 0.11 | 41.41 0.22 | 45.40 | 39.94 0.23 | 40.48 0.26 | 41.91 0.24 | 43.26 0.28 | 44.20 | 42.89 0.27 | 43.35 0.27 | 43.5 |
| Total NGLs | 7.36 | 7.57 | 7.95 | 7.53 | 7.57 | 7.49 | 7.68 | 7.81 | 7.63 | 7.71 | 0.3 7.7 |
| TOTAL OPEC+ | 47.9 | 49.0 | 53.4 | 47.5 | 48.0 | 49.4 | 50.9 | 52.0 | 50.5 | 51.1 | 51.2 |
| NON-OPEC+ | | | | | | | | | | | |
| OECD | | | | | | | | | | | |
| Americas ² | 21.92 | 22.36 | 23.59 | 21.34 | 22.27 | 22.39 | 23.43 | 23.31 | 23.13 | 23.47 | 23.69 |
| United States | 16.56 | 16.70 | 17.72 | 15.64 | 16.85 | 16.75 | 17.55 | 17.40 | 17.28 | 17.61 | 17.7 |
| Canada | 5.35 | 5.65 | 5.86 | 5.69 | 5.42 | 5.63 | 5.87 | 5.90 | 5.84 | 5.85 | 5.9 |
| Chile | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.0 |
| Europe | 3.56 | 3.39 | 3.45 | 3.63 | 3.12 | 3.38 | 3.45 | 3.55 | 3.41 | 3.43 | 3.5 |
| UK | 1.08 | 0.90 | 0.94 | 1.03 | 0.77 | 0.88 | 0.94 | 0.98 | 0.89 | 0.97 | 0.9 |
| Norway | 2.01 | 2.04 | 2.08 | 2.14 | 1.92 | 2.05 | 2.05 | 2.12 | 2.06 | 2.00 | 2.0 |
| Others Asia Oceania | 0.48 0.52 | 0.45 0.51 | 0.44 | 0.46 | 0.44 0.46 | 0.45 0.54 | 0.46 0.54 | 0.44 0.53 | 0.46 0.54 | 0.46 0.55 | 0.4 0.5 |
| Asia Oceania Australia | 0.52 | 0.31 | 0.52 0.46 | 0.51 0.44 | 0.46 | 0.54 | 0.48 | 0.53 | 0.54 | 0.55 | 0.3 |
| Others | 0.07 | 0.07 | 0.06 | 0.07 | 0.07 | 0.08 | 0.07 | 0.07 | 0.07 | 0.06 | 0.0 |
| Total OECD (non-OPEC+) | 26.00 | 26.27 | 27.57 | 25.48 | 25.85 | 26.31 | 27.42 | 27.39 | 27.07 | 27.45 | 27.74 |
| Non-OECD | 20.00 | 20.21 | 21.01 | 23.40 | 20.00 | 20.51 | 21.72 | 21.55 | 21.01 | 21.43 | 21.1 |
| FSU | 0.36 | 0.36 | 0.37 | 0.35 | 0.35 | 0.36 | 0.36 | 0.37 | 0.36 | 0.36 | 0.3 |
| Asia | 6.27 | 6.25 | 6.18 | 6.29 | 6.28 | 6.25 | 6.20 | 6.23 | 6.17 | 6.21 | 6.2 |
| China | 3.97 | 4.07 | 4.10 | 4.06 | 4.09 | 4.08 | 4.06 | 4.12 | 4.04 | 4.07 | 4.0 |
| ndia | 0.75 | 0.73 | 0.71 | 0.74 | 0.72 | 0.73 | 0.72 | 0.72 | 0.72 | 0.72 | 0.7 |
| ndonesia | 0.73 | 0.68 | 0.65 | 0.70 | 0.68 | 0.68 | 0.67 | 0.66 | 0.67 | 0.67 | 0.6 |
| Others | 0.82 | 0.77 | 0.72 | 0.79 | 0.79 | 0.76 | 0.74 | 0.73 | 0.74 | 0.75 | 0.7 |
| Europe | 0.12 | 0.11 | 0.10 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.1 |
| Americas | 5.32 | 5.31 | 5.52 | 5.27 | 5.31 | 5.44 | 5.23 | 5.41 | 5.23 | 5.33 | 5.13 |
| Brazil | 3.04 | 3.01 | 3.16 | 2.95 | 3.04 | 3.10 | 2.96 | 3.08 | 2.88 | 2.97 | 3.0 |
| Argentina | 0.61 | 0.64 | 0.68 | 0.62 | 0.63 | 0.64 | 0.67 | 0.68 | 0.66 | 0.68 | 0.6 |
| Colombia | 0.79 | 0.74 | 0.72 | 0.75 | 0.72 | 0.75 | 0.75 | 0.74 | 0.76 | 0.75 | 0.7 |
| Ecuador | 0.48 | 0.48 | 0.47 | 0.51 | 0.50 | 0.49 | 0.40 | 0.48 | 0.49 | 0.49 | 0.2 |
| Others | 0.4 | 0.4 | 0.5 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0. |
| Middle East | 1.87 | 1.93 | 1.96 | 1.92 | 1.92 | 1.93 | 1.93 | 1.96 | 1.93 | 1.93 | 1.93 |
| Qatar | 1.77 | 1.82 | 1.85 | 1.82 | 1.82 | 1.82 | 1.83 | 1.85 | 1.83 | 1.83 | 1.8 |
| Others | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.11 | 0.11 | 0.11 | 0.11 | 0.1 |
| Africa | 1.2 | 1.1 | 1.1 | 1.11 | 1.11 | 1.08 | 1.07 | 1.08 | 1.07 | 1.07 | 1.08 |
| Egypt | 0.60 | 0.57 | 0.56 | 0.57 | 0.58 | 0.56 | 0.56 | 0.56 | 0.56 | 0.56 | 0.5 |
| Others | 0.57 | 0.53 | 0.50 | 0.54 | 0.53 | 0.52 | 0.51 | 0.52 | 0.51 | 0.51 | 0.5 |
| Total non-OECD (non-OPEC+) | 15.11 | 15.05 | 15.20 | 15.06 | 15.09 | 15.16 | 14.90 | 15.15 | 14.88 | 15.02 | 14.82 |
| Processing gains | 2.11 | 2.25 | 2.38 | 2.13 | 2.22 | 2.34 | 2.32 | 2.38 | 2.27 | 2.33 | 2.37 |
| | | | | | | | | | | | |
| | 2.63 | 2.74 | 2.99 | 2.18 | 2.93 | 3.19 | 2.65 | 2.38 | 2.88 | 2.64 | 2.44 |
| Global biofuels TOTAL NON-OPEC+ | 2.63 45.86 | 2.74 46.32 | 2.99 48.14 | 2.18 44.84 | 2.93 46.10 | 3.19 47.00 | 2.65 47.30 | 2.38 47.29 | 2.88 47.09 | 2.64 47.44 | 2.44 47.38 |

¹ From Jan 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

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| | | | | | | able 4 | | | | | | |
|--|-----------------|-----------------|------------------|-----------------|-----------------------|-----------------|-----------------|-----------------|----------------|---------------|---------------|----------------|
| | | (| DECD S | TOCKS | AND QU | ARTERLY | STOCK | CHANG | ES | | | |
| | | | MONTHL | Y STOCKS | 3 ² | | YEARS' S' | | | STOCK C | HANGES | |
| | Jul2021 | Aug2021 | Sep2021 | Oct2021 | Nov2021 ³ | Nov2018 | Nov2019 | Nov2020 | 4Q2020 | 1Q2021 | 2Q2021 | 3Q2021 |
| OECD INDUSTRY- | CONTROL | LED STO | CKS ¹ | | | | | | | | | |
| OECD Americas | | | | | | | | | | | | |
| Crude | 616.5 | 597.8 | 591.8 | 616.5 | 614.9 | 610.5 | 594.0 | 664.9 | -0.10 | 0.26 | -0.57 | -0.33 |
| Motor Gasoline | 258.5 | 251.5 | 253.2 | 243.5 | 248.1 | 257.6 | 259.2 | 270.2 | 0.17 | -0.06 | -0.02 | -0.13 |
| Middle Distillate | 211.9 | 207.1 | 198.7 | 197.7 | 195.2 | 193.8 | 190.1 | 218.9 | -0.11 | -0.16 | -0.01 | -0.12 |
| Residual Fuel Oil | 36.1 | 36.4 | 34.9 | 35.6 | 33.5 | 35.1 | 37.9 | 38.0 | -0.01 | 0.02 | -0.01 | -0.04 |
| Total Products ⁴ | 765.3 | 761.5 | 756.3 | 746.0 | 741.8 | 749.6 | 769.6 | 817.7 | -0.65 | -0.65 | 0.26 | -0.03 |
| Total ⁴ | 1550.8 | 1521.3 | 1511.4 | 1527.3 | 1519.2 | 1526.7 | 1527.3 | 1657.1 | -0.83 | -0.44 | -0.27 | -0.40 |
| OECD Europe | | | | | | | | | | | | |
| Crude | 336.5 | 315.1 | 306.4 | 312.1 | 328.8 | 338.8 | 355.9 | 360.9 | -0.07 | -0.20 | -0.12 | -0.38 |
| Motor Gasoline | 80.3 | 80.3 | 80.5 | 85.5 | 85.1 | 88.3 | 90.4 | 102.2 | 0.09 | -0.10 | -0.04 | -0.07 |
| Middle Distillate | 295.1 | 294.7 | 272.9 | 253.7 | 248.5 | 239.6 | 270.5 | 328.5 | -0.19 | -0.06 | -0.06 | -0.36 |
| Residual Fuel Oil | 63.5 | 65.1 | 63.4 | 58.6 | 58.1 | 56.3 | 65.0 | 66.1 | -0.02 | 0.00 | -0.03 | -0.01 |
| Total Products ⁴ | 537.0 | 540.7 | 514.3 | 494.0 | 486.8 | 496.9 | 542.9 | 612.3 | -0.19 | -0.26 | -0.20 | -0.44 |
| Total ⁵ | 949.0 | 930.5 | 892.5 | 879.0 | 890.1 | 915.6 | 979.8 | 1057.1 | -0.39 | -0.46 | -0.32 | -0.88 |
| OECD Asia Ocean | ia | | | | | | | | | | | |
| Crude | 114.5 | 114.0 | 109.4 | 109.1 | 106.1 | 160.7 | 153.0 | 155.5 | -0.12 | -0.33 | 0.01 | -0.17 |
| Motor Gasoline | 26.1 | 28.3 | 26.7 | 28.1 | 27.0 | 26.1 | 25.7 | 25.5 | -0.01 | 0.04 | 0.00 | -0.03 |
| Middle Distillate Residual Fuel Oil | 66.2 | 75.0 | 72.1 | 72.6 | 71.7 | 78.5 | 75.6 | 71.4 | -0.06 | -0.03 | 0.02 | 0.07 |
| Total Products ⁴ | 17.7 169.5 | 18.2 186.9 | 18.7 184.3 | 16.4 185.3 | 15.7 178.9 | 19.2 189.9 | 19.1 181.2 | 16.1 178.3 | -0.02 -0.16 | 0.02 -0.02 | 0.00 0.05 | 0.02 0.15 |
| Total ⁵ | | | | | | | | | | | | |
| lotai | 345.4 | 363.9 | 355.4 | 355.5 | 346.5 | 418.0 | 399.2 | 395.8 | -0.34 | -0.38 | 0.12 | -0.02 |
| Total OECD | | | | | | | | | | | | |
| Crude | 1067.4 | 1026.9 | 1007.6 | 1037.7 | 1049.8 | 1110.0 | 1102.8 | 1181.3 | -0.29 | -0.27 | -0.67 | -0.89 |
| Motor Gasoline | 364.9 | 360.1 | 360.4 | 357.1 | 360.1 | 371.9 | 375.4 | 397.9 | 0.26 | -0.12 | -0.06 | -0.22 |
| Middle Distillate | 573.1 | 576.8 | 543.6 | 524.0 | 515.4 | 511.9 | 536.2 | 618.8 | -0.36 | -0.25 | -0.05 | -0.41 |
| Residual Fuel Oil Total Products ⁴ | 117.3 1471.8 | 119.7 1489.1 | 116.9 1454.9 | 110.7 1425.3 | 107.3 1407.5 | 110.6 1436.3 | 122.0 1493.6 | 120.2 1608.2 | -0.04 -0.99 | 0.03 -0.93 | -0.04 0.11 | -0.03 -0.31 |
| Total ⁵ | | | | | | | | | | | | |
| | 2845.2 | 2815.7 | 2759.3 | 2761.9 | 2755.8 | 2860.2 | 2906.4 | 3109.9 | -1.56 | -1.28 | -0.47 | -1.30 |
| OECD GOVERNME | ENT-CONT | ROLLED | STOCKS | | | | | | | | | |
| OECD Americas | | | | | | | | | | | | |
| Crude | 621.3 | 621.3 | 617.8 | 610.7 | 600.9 | 649.6 | 635.0 | 638.1 | -0.04 | 0.00 | -0.18 | -0.04 |
| 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 | 204.4 | 204.0 | 205.3 | 203.2 | 202.5 | 211.9 | 209.3 | 207.1 | -0.02 | 0.02 | -0.02 | 0.00 |
| Products | 277.8 | 278.0 | 277.7 | 274.7 | 275.9 | 266.6 | 273.7 | 282.1 | 0.00 | 0.03 | -0.05 | -0.01 |
| OECD Asia Ocean | ia | | | | | | | | | | | |
| Crude | 373.9 | 371.3 | 369.5 | 369.5 | 370.4 | 380.8 | 377.4 | 374.5 | -0.03 | 0.00 | 0.00 | -0.05 |
| Products | 38.8 | 38.8 | 38.8 | 38.9 | 38.9 | 38.7 | 38.9 | 39.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total OECD | | | | | | | | | | | | |
| Crude | 1199.6 | 1196.5 | 1192.5 | 1183.4 | 1173.8 | 1242.3 | 1221.6 | 1219.7 | -0.10 | 0.02 | -0.20 | -0.10 |
| Products | 318.6 | 318.9 | 318.5 | 315.6 | 316.8 | 307.4 | 314.6 | 323.2 | -0.01 | 0.03 | -0.05 | -0.01 |
| Total ⁵ | 1519.8 | 1517.1 | 1512.7 | 1500.7 | 1492.5 | 1552.4 | 1537.9 | 1544.8 | -0.11 | 0.05 | -0.24 | -0.12 |

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 STOCKS¹ ON LAND IN SELECTED COUNTRIES

| Croude Marco Gasoline \$25,4 \$480, 159 \$201 \$438, 916.6 \$904 \$421,7 164.6 \$49.77 \$4204, 145.5 \$433,9 \$48.6 \$11.6 \$Macro Gasoline \$2645 \$2375 \$2257 \$50,2 \$275 \$50,2 \$275 \$2057 \$205,0 \$275 \$2057 \$205,0 \$275 \$2057 \$205,0 \$275 \$2057 \$205,0 \$20 | | | June | | | July | | | Augus | t | : | Septemb | er | c | October | |
|---|----------------------------|--------|--------|-------|--------|--------|-------|--------|--------|-------|--------|---------|-------|--------|---------|-------|
| Croude Marco Gasoline \$25,4 \$480, 159 \$201 \$438, 916.6 \$904 \$421,7 164.6 \$49.77 \$4204, 145.5 \$433,9 \$48.6 \$11.6 \$Macro Gasoline \$2645 \$2375 \$2257 \$50,2 \$275 \$50,2 \$275 \$2057 \$205,0 \$275 \$2057 \$205,0 \$275 \$2057 \$205,0 \$275 \$2057 \$205,0 \$20 | | 2020 | 2021 | % | 2020 | 2021 | % | 2020 | 2021 | % | 2020 | 2021 | % | 2020 | 2021 | % |
| Motor Gascinie Motor | United States ² | | | | | | | | | | | | | | | |
| Middle Dissilhate 2005 1864 1555 2219 1875 1525 2222 1824 179 2150 1763 180 1816 1755 1016 1887 1755 1016 1887 1755 1016 1887 1755 1016 1887 1755 1016 1887 1755 1016 1887 1755 1016 1875 1757 | Crude | | | | | | | | | | | | | | | |
| Residual Fuel Oil 93,5 311, 213 55,9 221 180, 344, 224 1445 321 280, 128 312 284, 90.0 Mer Products 712 680,6 147, 781,9 686,9 121 781,0 182,0 182,0 182,1 182,0 1 | | | | | | | | | | | | | | | | |
| Other Products 26.7 22.9 1.20 27.3 23.9 5.12. 23.9 1.20 27.3 23.9 1.40 23.0 | | | | | | | | | | | | | | | | |
| Tokal Products 71,2 680,6 -11,7 781,9 686,9 -12,1 785,2 684,4 -12,8 780,8 682,4 -12,6 747,9 671,4 -10,2 Tokal 1457,7 1271,5 -12,8 1454,0 1288,8 -12,7 1437,5 1241,2 -13,7 1423,2 1240,7 -12,8 1386,2 1247,4 -10,0 Tokal 1457,7 1271,5 -12,8 1454,0 1288,8 -12,7 1437,5 1241,2 -13,7 1423,2 1240,7 -12,8 1386,2 1247,4 -10,0 Tokal 11,5 143,2 43,3 11,9 99,416,8 12,1 99,416,2 12,2 10,2 -14,5 43,2 12,4 12,1 11,4 Model Delisliste 31,9 31,5 1-3, 30,3 30,8 6.7 37,1 34,4 7-3, 37,7 36,2 4.0 38,3 36,6 4.0 Model Delisliste 31,9 31,5 7-1,3 30,3 30,8 6.7 37,1 34,4 7-3,3 37,7 36,2 4.0 38,3 36,6 4.0 Model Delisliste 31,9 31,5 1-3,3 30,8 30,8 6.7 37,1 34,4 7-3,3 37,7 36,2 4.0 38,3 36,6 4.0 Model Delisliste 31,9 31,5 1-3,3 30,8 30,8 6.7 37,1 34,4 7-3,3 37,7 36,2 4.0 38,3 36,6 4.0 Model Delisliste 37,7 47,4 4-1 7-2 7-3,1 4-1 4-5,5 52,5 4.0 38,4 38,3 35,5 35,5 31,7 -2.1 36,0 39,1 4.6 Model Delisliste 37,7 47,1 4-1 7-2 7-3,1 4-1 4-5,5 52,5 49,3 -5,0 Model Delisliste 37,7 4-1 4-1 7-2 7-2 3,4 4-5,5 52,5 49,3 -5,0 Model Delisliste 37,7 4-1 4-1 7-2 4-1 | | | | | | | | | | | | | | | | |
| Defer 1538 | | | | | | | | | | | | | | | | |
| Japan | Other ³ | | | | | | | | | | | | | | | |
| Cricial Motor Gasoline 115 143 243 119 99-168 273 9-215 90.2 70.8 215 80.7 72.8 1186 116 4-1 Middio Distillation 115 39-168 121 99-182 112 102-164 121 116 4-1 Middio Distillation 115 39-182 112 102-164 121 116 4-1 Middio Distillation 1175 70 8-7 74 71-41 72 39-180 30.3 36.6 4.6 90 0.0 Oliner Products 36.6 31.9 128 36.0 31.7 -11.9 38.4 36.3 5.5 38.5 37.7 -2.1 6.9 0.0 31.1 8.6 0.0 Oliner Products 36.5 31.9 128 36.0 31.7 -11.9 38.4 36.3 5.5 38.5 37.7 -2.1 36.0 93.1 8.6 0.0 Oliner Products 375 84.7 -3.2 88.0 28.0 21.4 -4.7 86.1 82.9 -5.7 54.4 51.4 5.5 25.5 48.9 5.0 Oliner Products 375 84.7 -3.2 88.0 28.0 21.4 -4.7 86.1 82.9 -5.7 54.4 51.4 5.5 25.5 48.9 5.0 Oliner Products 48.4 8.4 8.4 8.4 8.4 8.4 8.6 4.5 5.8 3.8 48.8 46.6 4.5 5.8 3.8 48.8 46.6 4.5 5.8 3.8 48.8 46.6 4.5 5.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4 | Total | 1457.7 | 1271.5 | -12.8 | 1454.0 | 1268.8 | -12.7 | 1437.5 | 1241.2 | -13.7 | 1423.2 | 1240.7 | -12.8 | 1386.2 | 1247.4 | -10.0 |
| Motor Gasoline Motor | Japan | | | | | | | | | | | | | | | |
| Middle Delillate 319 315 -1-3 330 30.8 -6.7 37.1 34.4 -7.3 37.7 36.2 -4.0 38.3 36.6 -4.4 Residual Fuel Oil 7.5 7.0 -6.7 7.4 7.1 -1.1 7.2 7.3 1.4 6.9 7.7 7.2 6.9 6.9 9.0 Other Products 87.5 8.47 -3.2 88.3 78.5 10.0 94.8 87.9 -7.3 95.3 97.7 -2.1 36.0 39.1 8.6 Total Products 87.5 8.47 -3.2 88.3 78.5 10.0 94.8 87.9 -7.3 95.3 97.7 -2.1 36.0 39.1 8.6 Total Products 87.5 8.47 -3.2 88.3 78.5 10.0 94.8 87.9 -7.3 95.3 97.7 -2.1 36.0 39.1 8.6 Total Products 87.5 8.47 -3.2 88.3 78.5 10.0 94.8 87.9 -7.3 95.3 97.7 -2.1 36.0 39.1 8.6 Total Products 9.5 10.0 94.7 -1.0 94.8 87.9 -7.0 94.5 10.0 94.9 -5.0 Total 9.2 10.0 95.7 10.0 94.5 1 | | | | | | | | | | | | | | | | |
| Residual Fuel Oil 7.5 7,0 6.7 7,4 7,1 4.1 7,2 7,3 1.4 6,8 9,7.4 7,2 6,9 6,9 0,0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | | | | | | | | | | | | | | | |
| Other Products 87.5 847 3.2 83.0 31.7 -11.9 33.4 33.3 -5.5 33.5 37.7 -2.1 33.0 39.1 8.6 Total Products 87.5 84.7 3.2 88.3 75.9 5.6 51.0 9.8 87.9 7.3 98.3 97.7 -2.1 33.0 39.1 8.6 Total Products 55.7 51.3 7.9 53.6 51.1 4.7 56.1 52.9 -5.7 54.4 51.4 -5.5 52.5 49.9 -5.0 Total 24.2 21.0 -9.5 23.6 201.1 4.8 245.1 214.7 12.4 239.9 21.3 7.10, 23.5 216.9 7.9 Common C | | | | | | | | | | | | | | | | |
| Total Products | | | | | | | | | | | | | | | | |
| Other' 65,7 613, 7-9 52,6 51,1 -4,7 56,1 52,9 5.7 54,4 51,4 -5,5 52,5 49,9 -5,0 Total 23,2 21,0 -9,5 236,0 201,1-14,8 245,1 214,7 -12,4 239,9 213,7 -10,9 235,5 216,9 7,9 26may Germany Grude Grade | | | | | | | | | | | | | | | | |
| Contrains | Other ³ | | | | | | | | | | | | | | | |
| Crude Motor Gasoline 96 94 94 1-21 8.9 91 22 100 95 5-50 93 496 455 83 488 666 4.55 Motor Gasoline 96 94 94 1-21 8.9 91 22 100 95 5-50 93 19 10 10 10 10 10 10 10 10 10 10 10 10 10 | Total | 234.2 | 212.0 | -9.5 | 236.0 | 201.1 | -14.8 | 245.1 | 214.7 | -12.4 | 239.9 | 213.7 | -10.9 | 235.5 | 216.9 | -7.9 |
| Motor Gasoline 9.6 9.6 9.4 -2.1 8.9 9.1 2.2 10.0 9.5 -5.0 9.3 9.6 3.2 10.2 10.6 3.9 Motor Gasoline 12.5 24.1 -4.7 25.5 25.4 -0.4 27.6 25.2 -8.7 22.3 21.9 -1.8 21.7 21.3 -1.8 Residual Fluel Oil 8.2 7.9 -3.7 7.4 7.9 6.8 8.3 8.1 -2.4 7.9 8.1 2.5 7.1 8.1 14.1 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1 | Germany | 54.4 | 40.7 | - 0 | 40.0 | 50.0 | | 50.0 | 47.0 | 4.0 | 40.0 | 45.5 | 0.0 | 40.0 | 40.0 | 4.5 |
| Middle Disillate 25.3 24.1 4.7 25.5 25.4 -0.4 27.6 25.2 -8.7 7.23 21.9 -1.8 21.7 21.3 -1.8 Sessibla Five Disillate 25.3 24.1 -4.7 -7.9 6.8 6.3 6.8 -2.4 7.9 -7.0 | | | | | | | | | | | | | | | | |
| Residual Fuel Oil 8.2 7.9 -3.7 7.4 7.9 6.8 8.3 8.1 -2.4 7.9 8.1 2.5 7.1 8.1 14.1 Other Products 9.3 9.9 6.5 9.5 9.5 10.1 6.3 9.6 10.6 10.4 9.7 10.4 7.2 9.7 10.8 11.3 Total Products 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0. | | | | | | | | | | | | | | | | |
| Other Products 52.4 61.3 -2.1 51.3 52.5 2.3 55.5 53.4 -3.8 49.2 50.0 16. 49.7 7.0 4 7.2 9.7 10.8 11.3 Total Products 52.4 61.3 -2.1 51.3 52.5 2.3 55.5 53.4 -3.8 49.2 50.0 16. 49.7 50.8 4.3.3 Other* 10.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | | | | | | | | | | | | | | | | |
| Cher | Other Products | | | | | | | | | | | | | | | |
| Total 103.8 100.0 -3.7 101.2 103.1 1.9 105.7 101.2 -4.3 98.8 95.5 -3.3 97.5 97.4 -0.1 Taty Crude | Total Products | | | | | | | | | | | | | | | |
| Crude | 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 |
| Crude 41.6 42.7 2.6 43.2 36.0 -16.7 40.8 32.9 -19.4 40.0 33.6 -16.0 40.4 31.8 -21.3 Motor Gasoline 13.0 10.4 -20.0 11.5 9.4 -18.3 11.4 9.3 -18.4 11.5 96 -16.5 11.8 11.7 -0.8 Middle Distillate 32.9 29.4 -10.6 31.2 22.6 -27.6 31.3 26.6 -15.0 30.1 26.6 -11.6 29.2 25.1 -14.0 Residual Fuel Oil 9.2 7.5 -10.5 8.0 70 -12.5 8.4 7.5 -10.7 7.9 7.0 -11.4 7.9 7.1 -10.1 41.2 Middle Distillate 19.0 19.2 7.5 -10.5 8.0 70 -12.5 8.4 7.5 -10.7 7.9 7.0 -11.4 7.9 7.1 -10.1 41.4 2.8 10.8 -39.3 17.4 10.8 -37.9 19.0 11.5 -39.5 19.9 11.0 -44.7 19.4 11.1 -42.8 Total Products 72.9 58.1 -20.3 68.1 49.8 -26.9 70.1 54.9 -21.7 69.4 54.2 -21.9 68.3 55.0 -19.5 10.0 Mer³ 17.5 15.0 -14.3 17.8 13.9 -21.9 17.6 14.3 -18.8 17.3 14.8 -14.5 16.1 15.4 -4.3 Total Products 13.0 115.8 -12.3 12.1 12.1 99.7 -22.8 12.5 102.1 -20.5 12.6 10.6 19.0 12.8 102.2 -18.1 Total 13.0 11.5 -12.3 12.1 12.1 99.7 -22.8 12.5 102.1 -20.5 12.6 10.0 12.6 -19.0 12.8 102.2 -18.1 Total 20.0 11.5 -10.2 12.0 12.0 12.0 12.0 12.0 12.0 12.0 | Total | 103.8 | 100.0 | -3.7 | 101.2 | 103.1 | 1.9 | 105.7 | 101.2 | -4.3 | 98.8 | 95.5 | -3.3 | 97.5 | 97.4 | -0.1 |
| Motor Gasoline 13.0 10.4 20.0 11.5 9.4 -18.3 11.4 9.3 -18.4 11.5 9.6 -16.5 11.8 11.7 -0.8 Motor Gasoline 19.0 10.4 20.0 11.5 10.8 -2.2 26.76 31.3 26.6 -16.5 30.1 26.6 -11.6 29.2 25.1 -14.0 10.1 -42.8 10.8 -39.3 17.4 10.8 -37.9 19.0 11.5 -39.5 19.9 11.0 -44.7 19.4 11.1 -42.8 10.8 -2.9 58.1 -2.0 3 68.1 48.8 -26.9 70.1 54.9 -21.7 69.4 54.2 -21.9 68.3 55.0 -19.5 10.1 -42.8 10.8 -39.3 17.8 13.9 -21.9 17.6 14.3 -18.8 17.3 14.8 -14.5 16.1 15.4 -4.3 17.8 13.9 -21.9 17.6 14.3 -18.8 17.3 14.8 -14.5 16.1 15.4 -4.3 17.8 13.9 -21.9 17.6 14.3 -18.8 17.3 14.8 -14.5 16.1 15.4 -4.3 17.8 18.9 -21.9 17.6 14.3 -18.8 17.3 14.8 -14.5 16.1 15.4 -4.3 17.8 18.9 -21.9 17.6 14.3 -18.8 17.3 14.8 -14.5 16.1 15.4 -4.3 17.8 18.9 -21.9 17.6 14.3 -18.8 17.3 14.8 -14.5 16.1 15.4 -4.3 17.8 18.9 17.3 14.8 -14.5 16.1 15.4 -4.3 17.8 18.9 17.3 14.8 -14.5 16.1 15.4 -4.3 17.8 18.9 17.3 14.8 -14.5 16.1 15.4 -4.3 17.8 18.9 17.3 14.8 -14.5 16.1 15.4 -4.3 17.8 18.9 17.3 14.8 -14.5 16.1 15.4 -4.3 17.8 18.9 17.3 14.8 -14.5 16.1 15.4 -4.3 17.8 18.9 17.3 14.8 -14.5 16.1 15.4 -4.3 17.8 18.9 17.3 14.8 -14.5 16.1 15.4 -4.3 17.8 18.9 17.3 14.8 -14.5 16.1 15.4 -4.3 17.8 18.9 17.3 14.8 -14.5 16.1 15.4 -4.3 17.8 18.9 17.3 14.8 -14.5 16.1 15.4 -4.3 17.3 14.8 14.5 16.1 15.4 -4.3 17.8 18.9 17.3 14.8 14.5 16.1 15.4 -4.3 17.8 18.9 17.3 14.8 14.5 16.1 15.4 -4.3 17.8 18.9 17.3 14.8 14.5 16.1 15.4 -4.3 17.8 18.9 17.3 14.8 14.5 16.1 15.4 -4.3 17.9 18.9 17.9 17.9 17.9 17.9 17.9 17.9 17.9 17 | Italy | | | | | | | | | | | | | | | |
| Middle Distillate 32.9 29.4 -10.6 31.2 22.6 -27.6 31.3 26.6 -15.0 30.1 26.6 -11.6 29.2 25.1 -14.0 Residual Fuel Oil 9.2 7.5 -18.5 8.0 7.0 -12.5 8.4 7.5 -10.7 7.9 7011.4 7.9 7110.1 Other Products 17.8 10.8 -39.3 17.4 10.8 -37.9 19.0 11.5 -39.5 19.9 11.0 -44.7 19.4 11.1 -42.8 70.1 71.5 15.0 -14.3 17.8 13.9 -21.9 17.6 14.3 -17.8 13.9 -21.7 69.4 54.2 -21.9 68.3 55.0 -19.5 Other Products 72.9 58.1 -20.3 68.1 48.8 -26.9 70.1 54.9 -21.7 69.4 54.2 -21.9 68.3 55.0 -19.5 Other Products 72.9 15.1 -20.3 18.1 18.1 18.1 17.3 18.8 17.3 18.8 17.3 18.8 17.3 18.8 17.3 18.8 17.5 18.0 -19.5 Other Products 72.9 18.1 -20.3 18.1 18.1 18.3 18.2 18.5 18.2 17.5 18.8 17.3 18.8 17.3 18.8 17.5 18.5 18.4 18.5 16.1 15.4 -4.3 17.5 Otal 19.8 18.9 18.2 18.2 18.2 18.2 18.2 18.2 18.2 18.2 | Crude | | | | | | | | | | | | | | | |
| Residual Fuel Oil 9.2 7.5 -18.5 8.0 7.0 -12.5 8.4 7.5 -10.7 7.9 7.0 -11.4 7.9 7.1 -10.1 Other Products 17.8 10.8 -39.3 17.4 10.8 -37.9 19.0 11.5 -39.5 19.9 11.0 -44.7 19.4 11.1 -42.8 17.5 Total Products 72.9 58.1 -20.3 68.1 48.8 -26.9 70.1 54.9 -21.7 69.4 54.2 -21.9 68.3 55.0 -19.5 Other 7 17.5 15.0 -14.3 17.8 13.9 -21.9 17.6 14.3 -18.8 17.3 14.8 -14.5 16.1 15.4 -4.3 18.1 17.8 13.9 -21.9 17.6 14.3 -18.8 17.3 14.8 -14.5 16.1 15.4 -4.3 18.1 17.8 19.9 17.6 14.3 -18.8 17.3 14.8 -14.5 16.1 15.4 -4.3 18.1 17.8 19.9 -7.2 18.1 17.8 19.9 -7.2 18.1 17.8 19.9 -7.2 18.1 17.8 19.9 -7.2 18.1 17.8 19.9 19.7 -2.8 18.1 17.8 19.9 19.0 19.5 19.0 12.6 -19.0 12.8 10.2 1.8 | | | | | | | | | | | | | | | | |
| Other Products | | | | | | | | | | | | | | | | |
| Total Products 72.9 58.1 - 20.3 68.1 49.8 - 26.9 70.1 54.9 - 21.7 69.4 54.2 - 21.9 68.3 55.0 - 19.5 Clher³ 17.5 15.0 - 14.3 17.8 13.9 - 21.9 17.6 14.3 - 18.8 17.3 14.8 - 14.5 16.1 15.4 - 4.3 Total 132.0 115.8 - 12.3 12.1 99.7 - 22.8 128.5 102.1 - 20.5 126.7 102.6 - 19.0 124.8 102.2 - 18.1 France Crude 11.9 13.0 9.2 14.0 13.6 - 2.9 11.6 13.4 15.5 13.9 12.2 - 12.2 9.4 12.6 34.0 Motor Gasoline 4.9 3.6 - 26.5 4.5 3.8 - 15.6 5.0 4.2 - 16.0 4.9 4.0 18.4 5.4 4.0 - 25.9 Modole Distillate 22.9 22.9 0.0 22.0 21.6 - 1.8 25.9 21.3 - 17.8 24.7 19.5 - 21.1 24.4 17.0 - 30.3 Residual Fuel Oil 1.6 1.7 6.2 1.6 2.0 25.0 1.5 1.7 13.3 1.6 2.0 25.0 1.5 1.6 6.7 Other Products 33.5 31.4 - 6.3 32.3 30.7 - 5.0 36.5 30.3 - 17.0 35.1 28.7 - 18.2 35.4 25.9 - 26.8 Other³ 8.7 8.4 - 3.4 8.7 7.6 - 12.6 91. 70.2 - 23.1 8.2 7.0 - 14.6 5.2 1.6 5.0 14.2 - 25.0 1.5 1.7 13.3 1.6 1.2 1.2 1.5 1.4 1.5 1.5 1.4 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 | | | | | | | | | | | | | | | | |
| Others 17.5 15.0 -14.3 17.8 13.9 -21.9 17.6 14.3 -18.8 17.3 14.8 -14.5 16.1 15.4 -4.3 Total 132.0 115.8 -12.3 129.1 99.7 -22.8 128.5 102.1 -20.5 126.7 102.6 -19.0 124.8 102.2 -18.1 France Crude 11.9 13.0 9.2 14.0 13.6 -2.9 11.6 13.4 15.5 13.9 12.2 -12.2 9.4 12.6 34.0 Motor Gasoline 4.9 3.6 -26.5 4.5 3.8 15.6 5.0 4.2 -14.0 4.9 4.0 18.4 4.0 25.9 4.0 Cruber 1.0 1.1 3.2 | | | | | | | | | | | | | | | | |
| France Crude 11.9 13.0 9.2 14.0 13.6 -2.9 11.6 13.4 15.5 13.9 12.2 -12.2 9.4 12.6 34.0 -25.9 Middle Distillate 22.9 22.9 20.0 22.0 21.6 -1.8 25.9 21.3 -17.8 24.7 19.5 -21.1 24.4 17.0 -30.3 Residual Fuel Oil 1.6 1.7 6.2 1.6 2.0 25.0 1.5 1.7 13.3 1.6 2.0 25.0 1.5 1.7 13.3 1.6 2.0 25.0 1.5 1.7 13.3 1.6 2.0 25.0 1.5 1.7 13.3 1.6 2.0 25.0 1.5 1.7 13.3 1.6 2.0 25.0 1.5 1.6 1.7 1.6 26.0 1.5 1.7 13.3 1.6 2.7 1.1 24.7 1.1 3.3 2.1 4.8 2.9 2.8 2.8 2.0 | Other ³ | | | | | | | | | | | | | | | |
| Crude 11.9 13.0 9.2 14.0 13.6 -2.9 11.6 13.4 15.5 13.9 12.2 -12.2 9.4 12.6 34.0 Motor Gasoline 4.9 3.6 -26.5 4.5 3.8 -15.6 5.0 4.2 -16.0 4.9 4.0 -18.4 5.4 4.0 -25.9 Motor Gasoline 22.9 22.9 0.0 22.0 21.6 -1.8 25.9 21.3 -17.8 24.7 19.5 -21.1 24.4 17.0 -30.3 Residual Fuel Oil 1.6 1.7 6.2 1.6 2.0 25.0 1.5 1.7 13.3 1.6 2.0 25.0 1.5 1.5 1.6 6.7 Other Products 4.1 3.2 -22.0 4.2 3.3 -21.4 4.1 3.1 -24.4 3.9 3.2 -17.9 4.1 3.3 -19.5 Total Products 33.5 31.4 -6.3 32.3 30.7 -5.0 36.5 30.3 -17.0 35.1 28.7 +18.2 35.4 25.9 -26.8 Other³ 8.7 8.4 -3.4 8.7 7.6 -12.6 9.1 7.0 -23.1 8.2 7.0 -14.6 8.2 7.0 -14.6 Total 54.1 52.8 -2.4 55.0 51.9 -5.6 57.2 50.7 -11.4 57.2 47.9 -16.3 53.0 45.5 -14.2 United Kingdom Crude 32.1 26.5 -17.4 31.8 26.8 -15.7 28.4 24.0 -15.5 27.7 24.9 -10.1 27.8 24.8 +10.8 Motor Gasoline 9.5 9.0 -5.3 9.8 9.4 -4.1 9.3 9.3 0.0 9.9 8.7 -12.1 10.4 9.5 -8.7 Middle Distillate 32.3 24.2 -25.1 32.1 24.5 -23.7 32.0 23.7 -25.9 30.6 21.4 -30.1 32.5 21.3 -34.5 Cuther Products 6.3 6.4 1.6 7.2 6.3 -12.5 7.3 6.9 -5.5 6.5 7.1 9.2 6.6 6.5 -1.5 Total Products 49.9 40.9 -18.0 50.6 41.7 -17.6 50.4 41.1 -18.5 48.2 38.5 -20.1 50.6 38.6 -23.7 Total Products 49.9 40.9 -18.0 50.6 41.7 -17.6 50.4 41.1 -18.5 48.2 38.5 -20.1 50.6 38.6 -23.7 Total Products 99.9 76.2 -15.2 90.2 77.3 -14.3 86.1 73.3 -14.9 83.7 71.6 -14.5 86.9 72.4 -16.7 Canada¹ Crude 137.5 141.3 2.8 13.5 143.3 7.3 130.9 142.1 8.6 12.9 0 137.5 6.6 128.1 145.9 13.9 Motor Gasoline 15.6 14.9 -4.5 15.0 15.1 0.7 14.3 14.2 18.6 12.9 0 137.5 6.6 128.1 145.9 13.9 Motor Gasoline 15.6 14.9 -4.5 15.0 15.1 0.7 14.3 14.3 0.0 15.0 14.7 -2.0 15.6 15.3 -1.5 Motor Gasoline 15.6 14.9 -4.5 15.0 15.1 0.7 14.3 14.3 0.0 15.0 14.7 -2.0 15.6 15.3 -1.5 15.0 1.5 14.5 14.6 14.5 14.6 14.5 14.5 14.5 14.5 14.5 14.5 14.5 14.5 | Total | 132.0 | 115.8 | -12.3 | 129.1 | 99.7 | -22.8 | 128.5 | 102.1 | -20.5 | 126.7 | 102.6 | -19.0 | 124.8 | 102.2 | -18.1 |
| Motor Gasoline 4.9 3.6 - 26.5 4.5 3.8 - 15.6 5.0 4.2 - 16.0 4.9 4.0 - 18.4 5.4 4.0 - 25.9 Middle Distillate 22.9 22.9 0.0 22.0 21.6 - 1.8 25.9 21.3 - 17.8 24.7 19.5 - 21.1 24.4 17.0 - 30.3 Residual Fuel Oil 1.6 1.7 62.2 1.6 2.0 25.0 1.5 1.7 13.3 1.6 2.0 25.0 1.5 1.7 13.3 1.6 2.0 25.0 1.5 1.7 13.3 1.6 2.0 25.0 1.5 1.7 13.3 1.6 2.0 25.0 1.5 1.7 13.3 1.6 2.0 25.0 1.5 1.7 13.3 1.6 2.0 25.0 1.5 1.7 13.3 1.6 2.0 25.0 1.5 7.7 24.4 3.0 3.19.5 3.19.5 3.19.5 3.6 30.3 1.70.0 3.1 28.7 14.6 2.0 2.7 4.9 1.0 2.5 2.9 2.0 2.5 3.0 | France | | | | | | | | | | | | | | | |
| Middle Distillate 22.9 22.9 0.0 22.0 21.6 -1.8 25.9 21.3 -17.8 24.7 19.5 -21.1 24.4 17.0 -30.3 Residual Fuel Oil 1.6 1.7 6.2 1.6 2.0 25.0 1.5 1.6 1.7 13.3 1.6 2.0 25.0 1.5 1.6 6.7 Other Products 4.1 32 -22.0 4.2 33.3 -21.4 4.1 31.1 -24.4 3.9 32.2 -17.9 4.1 33.3 -19.5 Total Products 33.5 31.4 -6.3 32.3 30.7 -5.0 36.5 30.3 -17.0 35.1 28.7 -18.2 35.4 25.9 -26.8 Other 8.7 8.4 -3.4 8.7 7.6 -12.6 9.1 7.0 -23.1 8.2 7.0 -14.6 8.2 7.0 -14.6 Total 54.1 52.8 -2.4 55.0 51.9 -5.6 57.2 50.7 -11.4 57.2 47.9 -16.3 53.0 45.5 -14.2 United Kingdom Crude 32.1 26.5 -17.4 31.8 26.8 -15.7 28.4 24.0 -15.5 27.7 24.9 -10.1 27.8 24.8 -10.8 Motor Gasoline 9.5 9.0 -5.3 9.8 9.4 -4.1 9.3 9.3 0.0 9.9 8.7 -12.1 10.4 9.5 -8.7 Residual Fuel Oil 1.8 1.3 -27.8 1.5 1.5 0.0 1.8 1.2 -33.3 1.2 1.3 8.3 1.1 1.3 18.2 Other Products 6.3 6.4 1.6 7.2 6.3 -12.5 7.3 6.9 -5.5 6.5 7.1 9.2 6.6 6.5 -1.5 Total Products 49.9 40.9 -18.0 50.6 41.7 -17.6 50.4 41.1 -18.5 48.2 38.5 -20.1 50.6 36.6 -23.7 Total Products 9.9 76.2 -15.2 90.2 77.3 -14.3 86.1 73.3 -14.9 83.7 71.6 -14.5 86.9 72.4 -16.7 Canada Crude 137.5 141.3 2.8 133.5 143.3 7.3 130.9 142.1 8.6 129.0 137.5 6.6 128.1 145.9 13.9 Motor Gasoline 15.6 14.9 -4.5 15.0 15.1 10.7 14.3 14.3 0.0 15.0 14.7 -2.0 15.6 128.1 145.9 13.9 Motor Gasoline 15.6 14.9 -4.5 15.0 15.1 0.7 14.3 14.3 0.0 15.0 14.7 -2.0 15.6 128.1 145.9 13.9 Motor Gasoline 15.6 14.9 -4.5 15.0 15.1 15.0 14.5 11.6 15.2 31.0 16.6 12.8 20.8 11.7 12.3 5.1 Motor Gasoline 15.6 14.9 -4.5 15.0 15.1 15.0 | | | | | | | | | | | | | | | | |
| Residual Fuel Oil 1.6 1.7 6.2 1.6 2.0 25.0 1.5 1.7 13.3 1.6 2.0 25.0 1.5 1.6 6.7 Other Products 4.1 3.2 22.0 4.2 3.3 -21.4 4.1 3.1 -24.4 3.9 3.2 -17.9 4.1 3.3 -19.6 Cother Products 33.5 31.4 -6.3 32.3 30.7 -5.0 36.5 30.3 -17.0 35.1 28.7 -18.2 35.4 25.9 -26.8 Other 8.7 8.4 -3.4 8.7 7.6 -12.6 9.1 7.0 -23.1 8.2 7.0 -14.6 8.2 7.0 -14.6 Cother 8.7 8.4 -3.4 8.7 7.6 -12.6 9.1 7.0 -23.1 8.2 7.0 -14.6 8.2 7.0 -14.6 Cother 8.7 8.4 -3.4 8.7 8.8 -2.4 55.0 51.9 -5.6 57.2 50.7 -11.4 57.2 47.9 -16.3 53.0 45.5 -14.2 Cother 8.7 8.4 -3.4 8.8 8.8 8.2 8 -15.7 28.4 24.0 -15.5 27.7 24.9 -10.1 27.8 24.8 -10.8 Motor Gasoline 9.5 9.0 -5.3 9.8 9.4 -4.1 9.3 9.3 9.0 9.9 8.7 -12.1 10.4 9.5 -8.7 Middle Distillate 32.3 24.2 -25.1 32.1 24.5 -23.7 32.0 23.7 -25.9 30.6 21.4 -30.1 32.5 21.3 -34.5 Residual Fuel Oil 1.8 1.3 -27.8 1.5 1.5 0.0 1.8 1.2 -33.3 1.2 1.3 8.3 1.1 1.3 18.2 Cother Products 6.3 6.4 1.6 7.2 6.3 -12.5 7.3 6.9 -5.5 6.5 7.1 9.2 6.6 6.5 -1.5 Cother Products 49.9 40.9 -18.0 50.6 41.7 -17.6 50.4 41.1 -18.5 48.2 38.5 -20.1 50.6 38.6 -23.7 Cother 8.9 7.9 8.8 11.4 7.8 8.8 12.8 7.3 8.2 12.3 7.8 8.2 5.1 8.5 9.0 5.9 Total 89.9 76.2 -15.2 90.2 77.3 -14.3 86.1 73.3 -14.9 83.7 71.6 -14.5 86.9 72.4 -16.7 Canada Cother Products 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 | | | | | | | | | | | | | | | | |
| Other Products 4.1 3.2 -22.0 4.2 3.3 -21.4 4.1 3.1 -24.4 3.9 3.2 -17.9 4.1 3.3 -19.5 Total Products 33.5 31.4 -6.3 32.3 30.7 -5.0 36.5 30.3 -17.0 35.1 28.7 -18.2 35.4 25.9 -26.8 Cher³ 8.4 3.4 8.7 7.6 -12.6 9.1 7.0 -23.1 8.2 7.0 -14.6 8.2 7.0 -14.6 Total 54.1 52.8 -2.4 55.0 51.9 -5.6 57.2 50.7 -11.4 57.2 47.9 -16.3 53.0 45.5 -14.2 United Kingdom Crude 32.1 26.5 -17.4 31.8 26.8 -15.7 28.4 24.0 -15.5 27.7 24.9 -10.1 27.8 24.8 -10.8 Motor Gasoline 9.5 9.0 -5.3 9.8 9.4 -4.1 9.3 9.0 9.9 8.7 -12.1 10.4 9.5 -8.7 Residual Fuel Oil 1.8 1.3 -27.8 1.5 1.5 0.0 1.8 1.2 -33.3 1.2 < | | | | | | | | | | | | | | | | |
| Total Products 33.5 31.4 -6.3 32.3 30.7 -5.0 36.5 30.3 -17.0 35.1 28.7 -18.2 35.4 25.9 -26.8 Other 8.7 8.4 -3.4 8.7 7.6 -12.6 9.1 7.0 -23.1 8.2 7.0 -14.6 8.2 7.0 -14.6 Total 54.1 52.8 -2.4 55.0 51.9 -5.6 57.2 50.7 -11.4 57.2 47.9 -16.3 53.0 45.5 -14.2 United Kingdom Crude 32.1 26.5 -17.4 31.8 26.8 -15.7 28.4 24.0 -15.5 27.7 24.9 -10.1 27.8 24.8 -10.8 Motor Gasoline 9.5 9.0 -5.3 9.8 9.4 -4.1 9.3 9.3 0.0 9.9 8.7 -12.1 10.4 9.5 -8.7 Middle Distillate 32.3 24.2 -25.1 32.1 24.5 -23.7 32.0 23.7 -25.9 30.6 21.4 -30.1 32.5 21.3 -34.5 Residual Fuel Oil 1.8 1.3 -27.8 1.5 1.5 0.0 1.8 12.2 -33.3 1.2 1.3 8.3 1.1 1.3 18.2 Cher 7 cher Products 6.3 6.4 1.6 7.2 6.3 -12.5 7.3 6.9 -5.5 6.5 7.1 9.2 6.6 6.5 -1.5 Total Products 49.9 40.9 -18.0 50.6 41.7 -17.6 50.4 41.1 -18.5 48.2 38.5 -20.1 50.6 38.6 -23.7 Other 7 9 8.8 11.4 7.8 8.8 12.8 7.3 82.1 12.3 7.8 82.2 51 8.5 9.0 5.9 Total 89.9 76.2 -15.2 90.2 77.3 -14.3 86.1 73.3 -14.9 83.7 71.6 -14.5 86.9 72.4 -16.7 Canada Crude 137.5 141.3 2.8 133.5 143.3 7.3 130.9 142.1 8.6 129.0 137.5 6.6 128.1 145.9 13.9 Motor Gasoline 15.6 14.9 -4.5 15.0 15.1 0.7 14.3 14.3 0.0 15.0 14.7 -2.0 15.6 15.3 -1.9 Middle Distillate 12.5 13.7 9.6 13.1 15.0 14.5 11.6 15.2 31.0 10.6 12.8 20.8 11.7 12.3 5.1 Residual Fuel Oil 2.6 2.9 11.5 2.7 3.1 14.8 2.7 2.4 -11.1 3.0 2.8 6.7 2.7 3.0 11.7 12.3 5.1 Residual Fuel Oil 2.6 2.9 11.5 2.7 3.1 14.8 2.7 2.4 -11.1 3.0 2.8 6.7 2.7 3.0 11.7 12.3 5.1 Residual Fuel Oil 2.6 2.9 11.5 2.7 3.1 14.8 2.7 2.4 -11.1 3.0 2.8 6.7 2.7 3.0 11.7 12.3 5.1 Residual Fuel Oil 2.6 2.9 11.5 2.7 3.1 14.8 2.7 2.4 -11.1 3.0 2.8 6.7 2.7 3.0 11.5 1.0 14.5 11.6 15.2 31.0 10.6 12.8 20.8 11.7 12.3 5.1 Residual Fuel Oil 2.6 2.9 11.5 2.7 3.1 14.8 2.7 2.4 -11.1 3.0 2.8 6.7 2.7 3.0 11.5 1.0 14.5 11.6 15.2 31.0 10.6 12.8 20.8 11.7 12.3 5.1 Residual Fuel Oil 2.6 2.9 11.5 2.7 3.1 14.8 2.7 2.4 -11.1 3.0 2.8 6.7 2.7 3.0 11.5 1.0 14.5 11.6 15.2 31.0 10.6 12.8 20.8 11.7 12.3 5.1 12.0 12.0 12.0 12.0 12.0 12.0 12.0 12 | | | | | | | | | | | | | | | | |
| Other 3 8.7 8.4 -3.4 8.7 7.6 -12.6 9.1 7.0 -23.1 8.2 7.0 -14.6 8.2 7.0 -14.6 Total 54.1 52.8 -2.4 55.0 51.9 -5.6 57.2 50.7 -11.4 57.2 47.9 -16.3 53.0 45.5 -14.2 United Kingdom Crude 32.1 26.5 -17.4 31.8 26.8 -15.7 28.4 24.0 -15.5 27.7 24.9 -10.1 27.8 24.8 -10.8 Motor Gasoline 9.5 9.0 -5.3 9.8 9.4 -4.1 9.3 9.3 0.0 9.9 8.7 -12.1 10.4 9.5 -8.7 Middle Distillate 32.3 24.2 -25.1 32.1 24.5 -23.7 32.0 23.7 -25.9 30.6 21.4 -30.1 32.5 21.3 -34.5 Residual Fuel Oil 1.8 1.3 -27.8 1.5 1.5 0.0 1.8 1.2 -33.3 1.2 1.3 8.3 1.1 1.3 18.2 Other Products 6.3 6.4 1.6 7.2 6.3 -12.5 7.3 6.9 -5.5 6.5 7.1 9.2 6.6 6.5 -1.5 Total Products 49.9 40.9 -18.0 50.6 41.7 -17.6 50.4 41.1 -18.5 48.2 38.5 -20.1 50.6 38.6 -23.7 Other 3 7.9 8.8 11.4 7.8 8.8 12.8 7.3 82.1 12.3 7.8 8.2 5.1 8.5 9.0 5.9 Total 89.9 76.2 -15.2 90.2 77.3 -14.3 86.1 73.3 -14.9 83.7 71.6 -14.5 86.9 72.4 -16.7 Canada Crude 137.5 141.3 2.8 133.5 143.3 7.3 130.9 142.1 8.6 129.0 137.5 6.6 128.1 145.9 13.9 Midot Gasoline 15.6 14.9 -4.5 15.0 15.1 0.7 14.3 14.3 0.0 15.0 14.7 -2.0 15.6 15.3 -1.9 Middle Distillate 12.5 13.7 9.6 13.1 15.0 14.5 11.6 15.2 31.0 10.6 12.8 20.8 11.7 12.3 5.1 Residual Fuel Oil 2.6 2.9 11.5 2.7 3.1 14.8 2.7 2.4 -11.1 3.0 2.8 -6.7 2.7 3.0 11.7 Other Products 9.4 10.1 7.4 9.6 10.3 7.3 8.6 10.8 25.6 8.1 9.2 13.6 8.4 8.8 4.8 Total Products 40.1 41.6 3.7 40.4 43.5 7.7 37.2 42.7 14.8 36.7 39.5 7.6 38.4 39.4 2.6 Other Products 40.1 41.6 3.7 40.4 43.5 7.7 37.2 42.7 14.8 36.7 39.5 7.6 38.4 39.4 2.6 Other Products 40.1 41.6 3.7 40.4 43.5 7.7 37.2 42.7 14.8 36.7 39.5 7.6 38.4 39.4 2.6 Other Products 40.1 41.6 3.7 40.4 43.5 7.7 37.2 42.7 14.8 36.7 39.5 7.6 38.4 39.4 2.6 Other 3 24.8 23.2 -6.5 28.4 25.7 -9.5 30.9 26.7 -13.6 30.0 25.2 -16.0 30.3 25.3 -16.5 | | | | | | | | | | | | | | | | |
| United Kingdom Crude 32.1 26.5 -17.4 31.8 26.8 -15.7 28.4 24.0 -15.5 27.7 24.9 -10.1 27.8 24.8 -10.8 Motor Gasoline 9.5 9.0 -5.3 9.8 9.4 -4.1 9.3 9.3 0.0 9.9 8.7 -12.1 10.4 9.5 -8.7 Middle Distillate 32.3 24.2 -25.1 32.1 24.5 -23.7 32.0 23.7 -25.9 30.6 21.4 -30.1 32.5 21.3 -34.5 Residual Fuel Oil 1.8 1.3 -27.8 1.5 1.5 0.0 1.8 1.2 -33.3 1.2 1.3 8.3 1.1 1.3 18.2 Other Products 6.3 6.4 1.6 7.2 6.3 -12.5 7.3 6.9 -5.5 6.5 7.1 9.2 6.6 6.5 -1.5 Total Products 49.9 40.9 -18.0 50.6 41.7 -17.6 50.4 41.1 -18.5 48.2 38.5 -20.1 50.6 38.6 -23.7 Other³ 7.9 8.8 11.4 7.8 8.8 12.8 7.3 82.1 12.3 7.8 82.2 5.1 8.5 90. 5.9 Total 89.9 76.2 -15.2 90.2 77.3 -14.3 86.1 73.3 -14.9 83.7 71.6 -14.5 86.9 72.4 -16.7 Canada⁴ Crude 137.5 141.3 2.8 133.5 143.3 7.3 130.9 142.1 8.6 129.0 137.5 6.6 128.1 145.9 13.9 Middle Distillate 12.5 13.7 9.6 13.1 15.0 14.5 11.6 15.2 31.0 10.6 12.8 20.8 11.7 12.3 5.1 Residual Fuel Oil 2.6 2.9 11.5 2.7 3.1 14.8 2.7 2.4 -11.1 3.0 2.8 -6.7 2.7 3.0 11.1 12.3 5.1 Residual Fuel Oil 2.6 2.9 11.5 2.7 3.1 14.8 2.7 2.4 -11.1 3.0 2.8 -6.7 2.7 3.0 11.5 12.8 10.1 14.5 14.5 14.5 14.5 14.5 14.5 14.5 14 | Other | | | | | | | | | | | | | | | |
| Crude 32.1 26.5 -17.4 31.8 26.8 -15.7 28.4 24.0 -15.5 27.7 24.9 -10.1 27.8 24.8 -10.8 Motor Gasoline 9.5 9.0 -5.3 9.8 9.4 -4.1 9.3 9.3 0.0 9.9 8.7 -12.1 10.4 9.5 -8.7 Residual Fuel Oil 1.8 1.3 -27.8 1.5 1.5 0.0 1.8 1.2 -33.3 1.2 1.3 8.3 1.1 1.3 18.2 Other Products 6.3 6.4 1.6 7.2 6.3 -12.5 7.3 6.9 -5.5 6.5 7.1 9.2 6.6 6.5 -1.5 Total Products 49.9 40.9 -18.0 50.6 41.7 -17.6 50.4 41.1 -18.5 48.2 38.5 -20.1 50.6 38.6 -23.7 Other³ 7.9 8.8 11.4 7.8 8.8 12.8 7.3 86.1 73.3 -14.9 83.7 71.6 -14.5 86.9 72.4 -16.7 Canada⁴ Crude 137.5 141.3 2.8 133.5 143.3 7.3 130.9 142.1 8.6 129.0 137.5 6.6 128.1 145.9 13.9 Motor Gasoline 15.6 14.9 -4.5 15.0 15.1 0.7 14.3 14.3 0.0 15.0 14.7 -2.0 15.6 15.3 -1.9 Middle Distillate 12.5 13.7 9.6 13.1 15.0 14.5 11.6 15.2 31.0 10.6 12.8 20.8 11.7 12.3 5.1 Residual Fuel Oil 2.6 2.9 11.5 2.7 3.1 14.8 2.7 2.4 -11.1 3.0 2.8 6.7 3.9 13.0 10.6 12.8 20.8 11.7 12.3 5.1 Residual Fuel Oil 2.6 2.9 11.5 2.7 3.1 14.8 2.7 2.4 -11.1 3.0 2.8 6.7 3.5 1.6 3.4 4.8 4.8 4.8 10.4 10.1 7.4 9.6 10.3 7.3 7.2 42.7 14.8 36.7 39.5 7.6 38.4 39.4 2.6 Other³ 24.8 23.2 -6.5 28.4 25.7 -9.5 30.9 26.7 -13.6 30.0 25.2 -16.0 30.3 25.3 -16.5 | Total | 54.1 | 52.8 | -2.4 | 55.0 | 51.9 | -5.6 | 57.2 | 50.7 | -11.4 | 57.2 | 47.9 | -16.3 | 53.0 | 45.5 | -14.2 |
| Motor Gasoline 9.5 9.0 -5.3 9.8 9.4 -4.1 9.3 9.3 0.0 9.9 8.7 -12.1 10.4 9.5 -8.7 Middle Distillate 32.3 24.2 -25.1 32.1 24.5 -23.7 32.0 23.7 -25.9 30.6 21.4 -30.1 32.5 21.3 -34.5 Other Products 6.3 6.4 1.6 7.2 6.3 -12.5 7.3 6.9 -5.5 6.5 7.1 9.2 6.6 6.5 -1.5 Total Products 49.9 40.9 -18.0 50.6 41.7 -17.6 50.4 41.1 -18.5 48.2 38.5 -20.1 50.6 38.6 -23.7 Other 7.9 8.8 11.4 7.8 8.8 12.8 7.3 8.2 12.3 7.8 8.2 5.1 8.5 9.0 5.9 Total 89.9 76.2 -15.2 90.2 77.3 -14.3 | United Kingdom | | | | | | | | | | | | | | | |
| Middle Distillate 32.3 24.2 -25.1 32.1 24.5 -23.7 32.0 23.7 -25.9 30.6 21.4 -30.1 32.5 21.3 -34.5 Residual Fuel Oil 1.8 1.3 -27.8 1.5 1.5 0.0 1.8 1.2 -33.3 1.2 1.3 8.3 1.1 1.3 18.2 Other Products 6.3 6.4 1.6 7.2 6.3 -12.5 7.3 6.9 -5.5 6.5 7.1 9.2 6.6 6.5 -1.5 Total Products 49.9 40.9 -18.0 50.6 41.7 -17.6 50.4 41.1 -18.5 48.2 38.5 -20.1 50.6 38.6 -23.7 Other³ 7.9 8.8 11.4 7.8 8.8 12.8 7.3 8.2 12.3 7.8 8.2 5.1 8.5 9.0 5.9 Total 89.9 76.2 -15.2 90.2 77.3 -14.3 86.1 73.3 -14.9 83.7 71.6 -14.5 86.9 72.4 -16.7 Canada* Crude 137.5 141.3 2.8 133.5 143.3 7.3 | Crude | | | | | | -15.7 | | | | | | | | | |
| Residual Fuel Oil 1.8 1.3 -27.8 1.5 1.5 0.0 1.8 1.2 -33.3 1.2 1.3 8.3 1.1 1.3 18.2 Other Products 6.3 6.4 1.6 7.2 6.3 -12.5 7.3 6.9 -5.5 6.5 7.1 9.2 6.6 6.5 -1.5 Total Products 49.9 40.9 -18.0 50.6 41.7 -17.6 50.4 41.1 -18.5 48.2 38.5 -20.1 50.6 38.6 -23.7 Other 7.9 8.8 11.4 7.8 8.8 12.8 7.3 8.2 12.3 7.8 8.2 5.1 8.5 9.0 5.9 Total 89.9 76.2 -15.2 90.2 77.3 -14.3 86.1 73.3 -14.9 83.7 71.6 -14.5 86.9 72.4 -16.7 Canada ** Crude 137.5 141.3 2.8 133.5 143.3 7.3 130.9 142.1 8.6 129.0 137.5 6.6 128.1 145.9 13.9 Middle Distillate 15.5 13.7 9.6 13.1 15.0 14.5 11.6 15.2 31.0 15.6 14.8 20.8 11.7 12.3 5.1 Residual Fuel Oil 2.6 2.9 11.5 2.7 3.1 14.8 2.7 2.4 -11.1 3.0 2.8 -6.7 2.7 3.0 11.1 6.0 Other Products 9.4 10.1 7.4 9.6 10.3 7.3 8.6 10.8 25.6 8.1 9.2 13.6 8.4 8.8 4.8 10.4 Products 40.1 41.6 3.7 40.4 43.5 7.7 37.2 42.7 14.8 36.7 39.5 7.6 38.4 39.4 2.6 Other 24.8 23.2 -6.5 28.4 25.7 -9.5 30.9 26.7 -13.6 30.0 25.2 -16.0 30.3 25.3 -16.5 | | | | | | | | | | | | | | | | |
| Other Products 6.3 6.4 1.6 7.2 6.3 -12.5 7.3 6.9 -5.5 6.5 7.1 9.2 6.6 6.5 -1.5 Total Products 49.9 40.9 -18.0 50.6 41.7 -17.6 50.4 41.1 -18.5 48.2 38.5 -20.1 50.6 38.6 -23.7 Other³ 7.9 8.8 11.4 7.8 8.8 12.8 7.3 8.2 12.3 7.8 8.2 5.1 8.5 9.0 5.9 Total 89.9 76.2 -15.2 90.2 77.3 -14.3 86.1 73.3 -14.9 83.7 71.6 -14.5 86.9 72.4 -16.7 Canada⁴ Crude 137.5 141.3 2.8 133.5 143.3 7.3 130.9 142.1 8.6 129.0 137.5 6.6 128.1 145.9 13.9 Motor Gasoline 15.6 14.9 -4.5 15.0 15.1 0.7 14.3 14.3 0.0 15.0 14.7 -2.0 15.6 15.3 -1.9 Middle Distillate 12.5 13.7 9.6 13.1 15.0 14.5 11.6 15.2 31.0 10.6 12.8 20.8 11.7 12.3 5.1 Residual Fuel Oil 2.6 2.9 11.5 2.7 3.1 14.8 2.7 2.4 -11.1 3.0 2.8 -6.7 2.7 3.0 11.1 <td></td> | | | | | | | | | | | | | | | | |
| Total Products 49.9 40.9 -18.0 50.6 41.7 -17.6 50.4 41.1 -18.5 48.2 38.5 -20.1 50.6 38.6 -23.7 Other 7.9 8.8 11.4 7.8 8.8 12.8 7.3 8.2 12.3 7.8 8.2 5.1 8.5 9.0 5.9 Total 89.9 76.2 -15.2 90.2 77.3 -14.3 86.1 73.3 -14.9 83.7 71.6 -14.5 86.9 72.4 -16.7 Canada ** Crude 137.5 141.3 2.8 133.5 143.3 7.3 130.9 142.1 8.6 129.0 137.5 6.6 128.1 145.9 13.9 Motor Gasoline 15.6 14.9 -4.5 15.0 15.1 0.7 14.3 14.3 0.0 15.0 14.7 -2.0 15.6 15.3 -1.9 Middle Distillate 12.5 13.7 9.6 13.1 15.0 14.5 11.6 15.2 31.0 10.6 12.8 20.8 11.7 12.3 5.1 Residual Fuel Oil 2.6 2.9 11.5 2.7 3.1 14.8 2.7 2.4 -11.1 3.0 2.8 -6.7 2.7 3.0 11.1 Other Products 9.4 10.1 7.4 9.6 10.3 7.3 8.6 10.8 25.6 8.1 9.2 13.6 8.4 8.8 4.8 Total Products 40.1 41.6 3.7 40.4 43.5 7.7 37.2 42.7 14.8 36.7 39.5 7.6 38.4 39.4 2.6 Other 24.8 23.2 -6.5 28.4 25.7 -9.5 30.9 26.7 -13.6 30.0 25.2 -16.0 30.3 25.3 -16.5 | | | | | | | | | | | | | | | | |
| Other 3 7.9 8.8 11.4 7.8 8.8 12.8 7.3 8.2 12.3 7.8 8.2 5.1 8.5 9.0 5.9 Total 89.9 76.2 -15.2 90.2 77.3 -14.3 86.1 73.3 -14.9 83.7 71.6 -14.5 86.9 72.4 -16.7 Canada 4 Crude 137.5 141.3 2.8 133.5 143.3 7.3 130.9 142.1 8.6 129.0 137.5 6.6 128.1 145.9 13.9 Motor Gasoline 15.6 14.9 -4.5 15.0 15.1 0.7 14.3 14.3 0.0 15.0 14.7 -2.0 15.6 15.3 -1.9 Middle Distillate 12.5 13.7 9.6 13.1 15.0 14.5 11.6 15.2 31.0 10.6 12.8 20.8 11.7 12.3 5.1 Residual Fuel Oil 2.6 2.9 11.5 2.7 3.1 14.8 2.7 2.4 -11.1 3.0 2.8 -6.7 2.7 3.0 11.1 Other Products 9.4 10.1 7.4 9.6 10.3 7.3 86.6 10.8 25.6 8.1 9.2 13.6 8.4 8.8 4.8 Total Products 40.1 41.6 3.7 40.4 43.5 7.7 37.2 42.7 14.8 36.7 39.5 7.6 38.4 39.4 2.6 Other 3.8 2.5 1.0 30.0 25.2 -16.0 30.3 25.3 -16.5 | | | | | | | | | | | | | | | | |
| Canada ⁴ Crude 137.5 141.3 2.8 133.5 143.3 7.3 130.9 142.1 8.6 129.0 137.5 6.6 128.1 145.9 13.9 Motor Gasoline 15.6 14.9 -4.5 15.0 15.1 0.7 14.3 10.0 15.0 14.7 -2.0 15.6 15.3 -1.9 Middle Distillate 12.5 13.7 9.6 13.1 15.0 14.5 11.6 15.2 31.0 10.6 12.8 20.8 11.7 12.3 5.1 Residual Fuel Oil 2.6 2.9 11.5 2.7 3.1 14.8 2.7 2.4 -11.1 3.0 2.8 -6.7 2.7 3.0 11.1 Other Products 9.4 10.1 7.4 9.6 10.3 7.3 8.6 10.8 25.6 8.1 9.2 13.6 8.4 8.8 4.8 Total Products 40.1 41.6 3.7 40. | Other ³ | | | | | | | | | | | | | | | |
| Crude 137.5 141.3 2.8 133.5 143.3 7.3 130.9 142.1 8.6 129.0 137.5 6.6 128.1 145.9 13.9 Motor Gasoline 15.6 14.9 -4.5 15.0 15.1 0.7 14.3 14.3 0.0 15.0 14.7 -2.0 15.6 15.3 -1.9 Middle Distillate 12.5 13.7 9.6 13.1 15.0 14.5 11.6 15.2 31.0 10.6 12.8 20.8 11.7 12.3 5.1 Residual Fuel Oil 2.6 2.9 11.5 2.7 3.1 14.8 2.7 2.4 -11.1 3.0 2.8 -6.7 2.7 3.0 11.1 Other Products 9.4 10.1 7.4 9.6 10.3 7.3 8.6 10.8 25.6 8.1 9.2 13.6 8.4 8.8 4.8 Total Products 40.1 41.6 3.7 40.4 43.5 < | Total | 89.9 | 76.2 | -15.2 | 90.2 | 77.3 | -14.3 | 86.1 | 73.3 | -14.9 | 83.7 | 71.6 | -14.5 | 86.9 | 72.4 | -16.7 |
| Motor Gasoline 15.6 14.9 -4.5 15.0 15.1 0.7 14.3 14.3 0.0 15.0 14.7 -2.0 15.6 15.3 -1.9 Middle Distillate 12.5 13.7 9.6 13.1 15.0 14.5 11.6 15.2 31.0 10.6 12.8 20.8 11.7 12.3 5.1 Residual Fuel Oil 2.6 2.9 11.5 2.7 3.1 14.8 2.7 2.4 -11.1 3.0 2.8 -6.7 2.7 3.0 11.1 Other Products 9.4 10.1 7.4 9.6 10.3 7.3 8.6 10.8 25.6 8.1 9.2 13.6 8.4 8.8 4.8 Total Products 40.1 41.6 3.7 40.4 43.5 7.7 37.2 42.7 14.8 36.7 39.5 7.6 38.4 39.4 2.6 Other* 24.8 23.2 -6.5 28.4 25.7 -9.5< | Canada ⁴ | | | | | | | | | | | | | | | |
| Middle Distillate 12.5 13.7 9.6 13.1 15.0 14.5 11.6 15.2 31.0 10.6 12.8 20.8 11.7 12.3 5.1 Residual Fuel Oil 2.6 2.9 11.5 2.7 3.1 14.8 2.7 2.4 -11.1 3.0 2.8 -6.7 2.7 3.0 11.1 Other Products 9.4 10.1 7.4 9.6 10.3 7.3 8.6 10.8 25.6 8.1 9.2 13.6 8.4 8.8 4.8 Total Products 40.1 41.6 3.7 40.4 43.5 7.7 37.2 42.7 14.8 36.7 39.5 7.6 38.4 39.4 2.6 Other* 24.8 23.2 -6.5 28.4 25.7 -9.5 30.9 26.7 -13.6 30.0 25.2 -16.0 30.3 25.3 -16.5 | Crude | | | | | | | | | | | | | | | |
| Residual Fuel Oil 2.6 2.9 11.5 2.7 3.1 14.8 2.7 2.4 -11.1 3.0 2.8 -6.7 2.7 3.0 11.1 Other Products 9.4 10.1 7.4 9.6 10.3 7.3 8.6 10.8 25.6 8.1 9.2 13.6 8.4 8.8 4.8 Total Products 40.1 41.6 3.7 40.4 43.5 7.7 37.2 42.7 14.8 36.7 39.5 7.6 38.4 39.4 2.6 Other³ 24.8 23.2 -6.5 28.4 25.7 -9.5 30.9 26.7 -13.6 30.0 25.2 -16.0 30.3 25.3 -16.5 | Motor Gasoline | | | | | | | | | | | | | | | |
| Other Products 9.4 10.1 7.4 9.6 10.3 7.3 8.6 10.8 25.6 8.1 9.2 13.6 8.4 8.8 4.8 Total Products 40.1 41.6 3.7 40.4 43.5 7.7 37.2 42.7 14.8 36.7 39.5 7.6 38.4 39.4 2.6 Other³ 24.8 23.2 -6.5 28.4 25.7 -9.5 30.9 26.7 -13.6 30.0 25.2 -16.0 30.3 25.3 -16.5 | Middle Distillate | | | | | | | | | | | | | | | |
| Total Products 40.1 41.6 3.7 40.4 43.5 7.7 37.2 42.7 14.8 36.7 39.5 7.6 38.4 39.4 2.6 Other 24.8 23.2 -6.5 28.4 25.7 -9.5 30.9 26.7 -13.6 30.0 25.2 -16.0 30.3 25.3 -16.5 | | | | | | | | | | | | | | | | |
| Other ³ 24.8 23.2 -6.5 28.4 25.7 -9.5 30.9 26.7 -13.6 30.0 25.2 -16.0 30.3 25.3 -16.5 | | | | | | | | | | | | | | | | |
| | Other ³ | | | | | | | | | | | | | | | |
| | Total | 202.4 | 206.1 | 1.8 | 202.3 | 212.5 | 5.0 | 199.0 | 211.5 | | 195.7 | 202.2 | 3.3 | 196.8 | 210.6 | 7.0 |

<sup>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.

2 US figures exclude US territories.

3 Other includes NGLs, refinery feedstocks, additives/oxygenates and other hydrocarbons.

4 Canadian stock information for recent months is the administration's best estimate. Data are usually finalised three months after first publication.</sup>

| | | | | Tal | ole 5 | | | | | |
|--------------------------------------|----------|-------------------------------------|----------|------------------|--------------------|------------|--------|-----------|----------|-------------------------|
| | | TOTA | AL STOCK | S ON LAN | ND IN OEC | D COUNT | TRIES1 | | | |
| | | | | ('millions of ba | rrels' and 'days') | | | | | |
| _ | End Cont | ombor 2020 | End Door | mber 2020 | End N | March 2021 | End | June 2021 | End Sont | ember 2021 ³ |
| | Stock | ember 2020 Days Fwd ² | Stock | Days Fwd | Stock | Days Fwd | Stock | Days Fwd | Stock | Days Fwd |
| | Level | Demand | Level | Demand | Level | Demand | Level | Demand | Level | Demand |
| OECD Americas | | | | | | | | | | |
| Canada | 195.7 | 92 | 199.1 | 94 | 201.0 | 93 | 206.1 | 86 | 202.2 | - |
| Chile | 11.9 | 32 | 11.0 | 33 | 9.7 | 30 | 11.7 | 31 | 10.4 | - |
| Mexico | 35.1 | 25 | 36.3 | 26 | 38.1 | 27 | 36.4 | 26 | 36.0 | - |
| United States ⁴ | 2067.4 | 110 | 1983.4 | 108 | 1941.5 | 97 | 1894.8 | 94 | 1860.5 | - |
| Total⁴ | 2332.2 | 102 | 2252.0 | 100 | 2212.4 | 92 | 2171.2 | 88 | 2131.2 | 86 |
| OECD Asia Oceania | | | | | | | | | | |
| Australia | 40.9 | 39 | 40.2 | 39 | 43.5 | 40 | 39.8 | 40 | 41.1 | - |
| Israel | - | - | - | - | - | - | - | - | - | - |
| Japan | 559.5 | 158 | 532.4 | 143 | 506.5 | 164 | 528.6 | 166 | 525.1 | - |
| Korea | 219.4 | 91 | 213.3 | 84 | 201.5 | 81 | 194.9 | 75 | 189.3 | - |
| New Zealand | 8.4 | 51 | 8.0 | 51 | 8.3 | 57 | 7.6 | 56 | 8.3 | - |
| Total | 828.2 | 113 | 793.8 | 104 | 759.7 | 108 | 770.9 | 108 | 763.7 | 99 |
| OECD Europe ⁵ | | | | | | | | | | |
| Austria | 24.4 | 107 | 23.6 | 113 | 23.6 | 97 | 23.0 | 84 | 21.2 | - |
| Belgium | 52.8 | 94 | 51.7 | 82 | 51.2 | 82 | 51.0 | 83 | 47.1 | - |
| Czech Republic | 22.7 | 115 | 23.8 | 134 | 23.1 | 108 | 21.8 | 93 | 21.7 | - |
| Denmark | 32.1 | 241 | 32.3 | 256 | 31.7 | 229 | 28.1 | 189 | 25.3 | - |
| Estonia | 3.6 | 139 | 3.7 | 150 | 2.9 | 107 | 2.9 | 99 | 2.7 | - |
| Finland | 43.3 | 235 | 38.5 | 235 | 39.1 | 230 | 39.5 | 209 | 37.3 | - |
| France | 167.7 | 116 | 158.4 | 107 | 162.1 | 112 | 163.0 | 100 | 157.3 | - |
| Germany | 276.6 | 131 | 278.2 | 147 | 278.0 | 134 | 275.8 | 124 | 270.5 | - |
| Greece | 34.9 | 150 | 35.0 | 153 | 34.4 | 144 | 30.5 | 100 | 26.4 | - |
| Hungary | 26.9 | 152 | 26.8 | 172 | 25.8 | 147 | 25.6 | 135 | 25.9 | - |
| Ireland | 12.2 | 85 | 11.9 | 94 | 11.7 | 87 | 12.0 | 82 | 10.6 | - |
| Italy | 139.9 | 124 | 135.8 | 130 | 126.8 | 110 | 128.9 | 103 | 118.0 | - |
| Latvia | 3.5 | 103 | 3.2 | 101 | 3.0 | 82 | 3.0 | 70 | 2.7 | - |
| Lithuania | 7.6 | 120 | 7.9 | 146 | 7.8 | 116 | 8.5 | 113 | 9.1 | - |
| Luxembourg | 0.6 | 12 | 0.6 | 13 | 0.6 | 13 | 0.8 | 14 | 0.5 | - |
| Netherlands | 165.5 | 194 | 156.6 | 195 | 158.1 | 196 | 147.2 | 181 | 125.8 | - |
| Norway | 31.8 | 136 | 30.1 | 114 | 28.2 | 146 | 23.6 | 99 | 20.2 | - |
| Poland | 82.2 | 122 | 81.6 | 131 | 82.7 | 126 | 80.0 | 103 | 78.1 | - |
| Portugal | 22.3 | 108 | 22.4 | 123 | 20.7 | 98 | 19.9 | 90 | 19.0 | - |
| Slovak Republic | 12.6 | 157 | 12.7 | 171 | 12.4 | 144 | 12.4 | 136 | 12.2 | - |
| Slovenia | 5.4 | 131 | 5.3 | 126 | 5.3 | 117 | 5.3 | 104 | 4.9 | - |
| Spain | 126.7 | 112 | 123.1 | 110 | 121.7 | 106 | 118.1 | 95 | 111.6 | - |
| Sweden | 66.5 | 268 | 62.7 | 219 | 48.8 | 162 | 45.2 | 144 | 38.3 | - |
| Switzerland | 34.5 | 196 | 34.0 | 206 | 33.7 | 192 | 32.9 | 178 | 33.4 | - |
| Turkey | 89.9 | 98 | 85.4 | 107 | 84.4 | 91 | 85.1 | 74 | 85.6 | - |
| United Kingdom | 83.5 | 68 | 85.5 | 74 | 76.9 | 61 | 76.2 | 58 | 71.6 | - |
| Total | 1569.6 | 125 | 1531.0 | 129 | 1495.0 | 118 | 1460.4 | 106 | 1377.1 | 101 |
| Total OECD | 4730.0 | 111 | 4576.8 | 109 | 4467.1 | 102 | 4402.4 | 97 | 4272.0 | 93 |
| DAYS OF IEA Net Imports ⁶ | | 254 | | 245 | | 241 | - | 167 | | 160 |

DATS UF IEA Net Imports* 254 . 245 . 241 .

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 entrepost 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 September 2021 forward demand figures are IEA Secretariat forecasts.

4 US figures exclude US territories. Total includes US territories.

5 Data not available for Iceland.

6 Reflects stock levels and prior calendar year's net imports adjusted according to IEA emergency reserve definitions (see www.iea.org/hetimports.asp). Net exporting IEA countries are excluded.

| | | TOTAL C | ECD STOCKS | | | |
|----------------|--------------|--|--------------|----------|---|----------|
| CLOSING STOCKS | Total | Government ¹ controlled Millions of Barrels | Industry | Total | Government ¹ controlled Days of Fwd. Deman | Industry |
| 3Q2018 | 4436 | 1570 | 2866 | 93 | 33 | 60 |
| 1Q2018 | 4425 4435 | 1552 1557 | 2873 2878 | 93 94 | 33 33 | 61 61 |
| Q2019 Q2019 | 4435 4487 | 1549 | 2938 | 94 93 | 33 32 | 61 |
| Q2019 Q2019 | 4492 | 1544 | 2948 | 94 | 32 | 62 |
| Q2019 | 4432 | 1535 | 2896 | 98 | 34 | 64 |
| Q2020 | 4517 | 1537 | 2980 | 121 | 41 | 80 |
| Q2020 | 4778 | 1561 | 3217 | 114 | 37 | 76 |
| Q2020 | 4730 | 1551 | 3179 | 111 | 36 | 75 |
| Q2020 | 4577 | 1541 | 3035 | 109 | 37 | 72 |
| Q2021 | 4467 | 1546 | 2921 | 102 | 35 | 67 |
| Q2021 | 4402 | 1524 | 2879 | 97 | 33 | 63 |
| Q2021 | 4272 | 1513 | 2759 | 93 | 33 | 60 |

Includes government-owned stocks and stock holding organisation stocks held for emergency purposes.
 Days of forward demand calculated using actual demand except in 3Q2021 (where latest forecasts are used).

Table 6 IEA MEMBER COUNTRY DESTINATIONS OF SELECTED CRUDE STREAMS¹

| | | | | | | | | | | | Year E | arlier |
|---------------------------------|-------|------|------|------|------|------|------|--------|--------|--------|--------|--------|
| _ | 2018 | 2019 | 2020 | 4Q20 | 1Q21 | 2Q21 | 3Q21 | Aug 21 | Sep 21 | Oct 21 | Oct 20 | change |
| Saudi Light & Extra Light | | | | | | | | | | | | |
| Americas | 0.66 | 0.20 | 0.26 | 0.11 | 0.18 | 0.31 | 0.45 | 0.40 | 0.53 | 0.33 | 0.06 | 0.27 |
| Europe | 0.69 | 0.68 | 0.59 | 0.51 | 0.43 | 0.40 | 0.55 | 0.61 | 0.49 | 0.59 | 0.52 | 0.07 |
| Asia Oceania | 1.45 | 1.42 | 1.39 | 1.44 | 1.41 | 1.12 | 1.18 | 1.35 | 1.25 | 1.25 | 1.41 | -0.16 |
| Saudi Medium | | | | | | | | | | | | |
| Americas | 0.30 | 0.12 | 0.14 | 0.03 | 0.06 | - | - | - | - | - | 0.09 | - |
| Europe | 0.01 | 0.02 | 0.02 | 0.01 | 0.01 | - | 0.02 | 0.03 | 0.01 | - | 0.02 | - |
| Asia Oceania | 0.41 | 0.23 | 0.25 | 0.26 | 0.22 | 0.17 | 0.19 | 0.18 | 0.18 | 0.26 | 0.27 | -0.01 |
| Canada Heavy | | | | | | | | | | | | |
| Americas | 2.41 | 2.27 | 2.39 | 2.55 | 2.62 | 2.43 | 2.47 | 2.46 | 2.55 | 2.65 | 2.56 | 0.09 |
| Europe | 0.04 | 0.04 | 0.03 | 0.03 | 0.04 | 0.03 | 0.04 | 0.04 | 0.02 | 0.02 | 0.01 | 0.01 |
| Asia Oceania | 0.00 | 0.00 | 0.00 | - | 0.01 | 0.04 | 0.01 | 0.01 | 0.01 | - | - | - |
| Iraqi Basrah Light ² | | | | | | | | | | | | |
| Americas | 0.50 | 0.31 | 0.11 | 0.05 | 0.06 | 0.05 | 0.04 | - | - | 0.13 | 0.08 | 0.05 |
| Europe | 0.76 | 0.85 | 0.58 | 0.54 | 0.56 | 0.63 | 0.60 | 0.63 | 0.58 | 0.75 | 0.53 | 0.22 |
| Asia Oceania | 0.43 | 0.37 | 0.22 | 0.20 | 0.15 | 0.17 | 0.16 | 0.16 | 0.13 | 0.13 | 0.11 | 0.02 |
| Kuwait Blend | | | | | | | | | | | | |
| Americas | 0.02 | - | - | - | - | - | - | - | - | - | - | - |
| Europe | 0.13 | 0.11 | 0.04 | - | - | - | - | - | - | - | - | - |
| Asia Oceania | 0.66 | 0.61 | 0.55 | 0.47 | 0.47 | 0.45 | 0.47 | 0.43 | 0.46 | 0.54 | 0.48 | 0.05 |
| Iranian Light | | | | | | | | | | | | |
| Americas | - | - | - | - | - | - | - | - | - | - | - | - |
| Europe | 0.16 | 0.00 | - | - | - | - | - | - | - | - | - | - |
| Asia Oceania | 0.01 | 0.00 | - | - | - | - | - | - | - | - | - | - |
| Iranian Heavy ³ | | | | | | | | | | | | |
| Americas | - | - | - | - | - | - | - | - | - | - | - | - |
| Europe | 0.35 | 0.04 | - | - | - | - | - | - | - | - | - | - |
| Asia Oceania | 0.28 | 0.14 | - | - | - | - | - | - | - | - | - | - |
| BFOE | | | | | | | | | | | | |
| Americas | 0.00 | 0.00 | - | - | - | 0.00 | 0.01 | - | - | - | - | - |
| Europe | 0.35 | 0.37 | 0.42 | 0.43 | 0.39 | 0.28 | 0.36 | 0.39 | 0.26 | 0.36 | 0.40 | -0.04 |
| Asia Oceania | 0.09 | 0.01 | 0.03 | 0.03 | 0.08 | 0.07 | - | - | - | 0.10 | 0.07 | 0.03 |
| Kazakhstan | | | | | | | | | | | | |
| Americas | - | - | - | - | - | 0.03 | - | - | - | - | - | - |
| Europe | 0.75 | 0.76 | 0.74 | 0.71 | 0.73 | 0.73 | 0.68 | 0.69 | 0.50 | 0.61 | 0.72 | -0.11 |
| Asia Oceania | 0.19 | 0.18 | 0.07 | 0.03 | 0.07 | 0.10 | 0.10 | 0.10 | 0.09 | 0.10 | - | - |
| Venezuelan 22 API and he | avier | | | | | | | | | | | |
| Americas | 0.44 | 0.05 | - | - | - | - | - | - | - | - | - | - |
| Europe | 0.03 | 0.09 | 0.04 | 0.01 | - | - | - | - | - | - | 0.03 | - |
| Asia Oceania | - | - | - | - | - | - | - | - | - | - | - | - |
| Mexican Maya | | | | | | | | | | | | |
| Americas | 0.63 | 0.51 | 0.48 | 0.37 | 0.36 | 0.45 | 0.45 | 0.48 | 0.49 | 0.30 | 0.30 | 0.00 |
| Europe | 0.21 | 0.19 | 0.16 | 0.18 | 0.15 | 0.15 | 0.13 | 0.13 | 0.13 | 0.10 | 0.15 | -0.06 |
| Asia Oceania | 0.08 | 0.13 | 0.12 | 0.16 | 0.15 | 0.12 | 0.14 | 0.13 | 0.10 | 0.15 | 0.20 | -0.05 |
| Russian Urals | | | | | | | | | | | | |
| Americas | 0.01 | 0.01 | - | - | - | - | - | - | - | - | - | - |
| Europe | 1.40 | 1.37 | 1.12 | 0.96 | 0.97 | 0.99 | 1.08 | 1.15 | 0.98 | 1.22 | 1.02 | 0.20 |
| Asia Oceania | 0.00 | - | - | - | 0.01 | - | 0.03 | - | 0.08 | - | - | - |
| Cabinda and Other Angola | | | | | | | | | | | | |
| North America | 0.06 | 0.01 | 0.01 | - | - | - | - | - | - | - | - | |
| Europe | 0.14 | 0.15 | 0.12 | 0.10 | 0.02 | 0.04 | 0.03 | 0.06 | 0.03 | 0.09 | 0.16 | -0.07 |
| Pacific | 0.01 | 0.00 | - | - | - | - | - | - | - | - | - | - |
| Nigerian Light⁴ | | | | | | | | | | | | |
| Americas | 0.01 | 0.03 | - | - | | 0.06 | 0.03 | 0.03 | 0.03 | | | - |
| Europe Asia Ossania | 0.53 | 0.51 | 0.49 | 0.52 | 0.41 | 0.30 | 0.40 | 0.41 | 0.33 | 0.60 | 0.46 | 0.15 |
| Asia Oceania | 0.02 | 0.02 | 0.02 | 0.02 | 0.00 | 0.01 | - | - | - | 0.02 | 0.03 | -0.01 |
| Libya Light and Medium | | | | | | | | | | | | |
| Americas | - | 0.00 | - | - | - | 0.03 | 0.06 | 0.09 | - | - | - | |
| Europe Asia Ossania | 0.62 | 0.67 | 0.19 | 0.49 | 0.75 | 0.79 | 0.87 | 0.72 | 0.91 | 0.76 | 0.11 | 0.65 |
| Asia Oceania | 0.02 | 0.03 | 0.01 | - | 0.01 | 0.02 | 0.01 | 0.01 | - | 0.01 | - | - |

Data based on monthly submissions from IEA countries to the crude oil import register (in '000 bbl), 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.
2 Iraqi Total minus Kirkuk.
3 Iranian Total minus Iranian Light.
4 33" API and lighter (e.g., Bonny Light, Escravos, Qua Iboe and Oso Condensate).

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| | | | | | Tal | ole 7 | | | | | | |
|-----------------------|-------|-------|------------------|------------------|-----------------------|---------------------------|--------------------|--------|--------|--------|--------|----------|
| | | | | REGIO | VAL OE (thousand b | ECD IMF arrels per day | PORTS ¹ | ,2 | | | | |
| | | | | | | | | | | | Year | Earlier |
| | 2018 | 2019 | 2020 | 4Q20 | 1Q21 | 2Q21 | 3Q21 | Aug 21 | Sep 21 | Oct 21 | Oct 20 | % change |
| Crude Oil | | | | | | | | | | | | |
| Americas | 3759 | 2698 | 1880 | 1625 | 1698 | 2111 | 2369 | 2307 | 2437 | 2066 | 1721 | 20% |
| Europe | 9814 | 9872 | 8349 | 8053 | 7780 | 8382 | 8717 | 8791 | 8754 | 9354 | 7814 | 20% |
| Asia Oceania | 6697 | 6542 | 5603 | 5511 | 5336 | 5459 | 5431 | 5813 | 5478 | 5821 | 5462 | 7% |
| Total OECD | 20269 | 19111 | 15833 | 15189 | 14814 | 15952 | 16517 | 16911 | 16669 | 17242 | 14997 | 15% |
| LPG | | | | | | | | | | | | |
| Americas | 22 | 26 | 28 | 26 | 21 | 16 | 22 | 16 | 26 | 20 | 14 | 48% |
| Europe | 457 | 434 | 422 | 429 | 394 | 421 | 388 | 355 | 401 | 336 | 470 | -28% |
| Asia Oceania | 553 | 582 | 559 | 506 | 642 | 555 | 528 | 504 | 507 | 516 | 495 | 4% |
| Total OECD | 1032 | 1042 | 1009 | 961 | 1057 | 992 | 937 | 874 | 933 | 873 | 979 | -11% |
| Naphtha | | | | | | | | | | | | |
| Americas | 8 | 5 | 7 | 5 | 7 | 7 | 11 | 6 | 14 | 4 | 6 | -34% |
| Europe | 391 | 347 | 409 | 410 | 526 | 514 | 448 | 376 | 437 | 588 | 406 | 45% |
| Asia Oceania | 1021 | 993 | 1005 | 889 | 1087 | 1076 | 1229 | 1265 | 1254 | 1168 | 740 | 58% |
| Total OECD | 1420 | 1345 | 1422 | 1303 | 1620 | 1597 | 1687 | 1647 | 1706 | 1760 | 1151 | 53% |
| Gasoline ³ | | | | | | | | | | | | |
| Americas | 773 | 817 | 567 | 565 | 598 | 1074 | 973 | 939 | 937 | 662 | 551 | 20% |
| Europe | 110 | 112 | 109 | 108 | 102 | 159 | 100 | 120 | 146 | 69 | 106 | -35% |
| Asia Oceania | 113 | 114 | 126 | 116 | 155 | 196 | 135 | 163 | 108 | 141 | 126 | 11% |
| Total OECD | 996 | 1043 | 802 | 789 | 854 | 1429 | 1208 | 1222 | 1192 | 871 | 784 | 11% |
| Jet & Kerosene | | | | | | | | | | | | |
| Americas | 140 | 175 | 158 | 145 | 108 | 166 | 207 | 219 | 253 | 238 | 163 | 46% |
| Europe | 509 | 520 | 337 | 295 | 281 | 291 | 364 | 358 | 348 | 382 | 457 | -16% |
| Asia Oceania | 89 | 76 | 63 | 58 | 100 | 71 | 43 | 28 | 51 | 43 | 25 | 69% |
| Total OECD | 738 | 771 | 558 | 498 | 489 | 528 | 615 | 605 | 652 | 664 | 646 | 3% |
| Gasoil/Diesel | | | | | | | | | | | | |
| Americas | 124 | 118 | 135 | 256 | 267 | 149 | 154 | 150 | 197 | 267 | 176 | 52% |
| Europe | 1339 | 1300 | 1192 | 1178 | 1099 | 1172 | 1155 | 1250 | 971 | 1265 | 1323 | -4% |
| Asia Oceania | 253 | 262 | 328 | 320 | 336 | 353 | 345 | 347 | 319 | 366 | 312 | 17% |
| Total OECD | 1716 | 1680 | 1656 | 1754 | 1701 | 1674 | 1654 | 1748 | 1487 | 1899 | 1812 | 5% |
| Heavy Fuel Oil | | | | | | | | | | | | |
| Americas | 161 | 116 | 143 | 129 | 116 | 96 | 91 | 120 | 81 | 129 | 189 | -32% |
| Europe | 197 | 223 | 295 | 310 | 368 | 315 | 414 | 341 | 535 | 216 | 388 | -44% |
| Asia Oceania | 162 | 101 | 88 536 | 80 540 | 109 | 116 | 121 | 112 | 115 | 101 | 63 | 62% |
| Total OECD | 520 | 440 | 526 | 519 | 594 | 527 | 627 | 573 | 730 | 446 | 639 | -30% |
| Other Products | | | | | | | | | | | | |
| Americas | 679 | 713 | 592 | 515 | 507 | 698 | 607 | 632 | 541 | 536 | 557 | -4% |
| Europe | 1011 | 865 | 574 | 491 | 515 | 512 | 574 | 594 | 545 | 743 | 414 | 80% |
| Asia Oceania | 263 | 268 | 241 | 232 | 246 | 260 | 267 | 206 | 285 | 281 | 234 | 20% |
| Total OECD | 1952 | 1846 | 1406 | 1238 | 1268 | 1470 | 1447 | 1432 | 1372 | 1559 | 1204 | 29% |
| Total Products | | | | | | | | | | | | |
| Americas | 1908 | 1971 | 1629 | 1641 | 1623 | 2206 | 2064 | 2082 | 2050 | 1856 | 1655 | 12% |
| Europe | 4013 | 3800 | 3339 | 3221 | 3286 | 3384 | 3443 | 3393 | 3383 | 3600 | 3564 | 1% |
| Asia Oceania | 2454 | 2397 | 2410 | 2200 | 2674 | 2627 | 2668 | 2625 | 2638 | 2616 | 1996 | 31% |
| Total OECD | 8374 | 8168 | 7378 | 7062 | 7583 | 8217 | 8175 | 8100 | 8071 | 8072 | 7215 | 12% |
| Total Oil | | | | | | | | | | | | |
| Americas | 5666 | 4669 | 3510 | 3266 | 3321 | 4317 | 4433 | 4389 | 4487 | 3922 | 3376 | 16% |
| Europe | 13827 | 13672 | 11688 | 11274 | 11066 | 11766 | 12159 | 12184 | 12137 | 12954 | 11378 | 14% |
| Asia Oceania | 9151 | 8939 | 8014 | 7711 | 8011 | 8087 | 8100 | 8439 | 8116 | 8437 | 7458 | 13% |
| Total OECD | 28644 | 27279 | 23211 | 22251 | 22397 | 24169 | 24692 | 25011 | 24740 | 25314 | 22212 | 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 IMPO | RTS F | ROM NO | ON-OEC | D COUN | TRIES ^{1,} | 2 | | |
| | | | | | (thousand b | arrels per day | y) | | | | | |
| | | | | | | | | | | | Year | Earlier |
| | 2018 | 2019 | 2020 | 4Q20 | 1Q21 | 2Q21 | 3Q21 | Aug 21 | Sep 21 | Oct 21 | Oct 20 | % change |
| 0. 1. 07 | | | | | | | | | | | | |
| Crude Oil | 2606 | 2552 | 1020 | 15/7 | 1615 | 2007 | 2277 | 2216 | 2373 | 1942 | 1622 | 20% |
| Americas Europe | 3606 9088 | 2553 8913 | 1820 7115 | 1547 6786 | 1615 6643 | 7109 | 7408 | 7463 | 7374 | 8171 | 6645 | 20% |
| Asia Oceania | 6249 | 5914 | 5076 | 5003 | 4710 | 4840 | 4785 | 5112 | 4868 | 5169 | 4816 | 7% |
| Total OECD | 18943 | 17380 | 14011 | 13336 | 12968 | 13957 | 14470 | 14792 | 14615 | 15282 | 13083 | 17% |
| LPG | | | | | | | | | | | | |
| Americas | 15 | 23 | 22 | 18 | 19 | 16 | 22 | 16 | 26 | 20 | 14 | 48% |
| Europe | 350 | 303 | 252 | 231 | 244 | 229 | 250 | 277 | 230 | 229 | 231 | -1% |
| Asia Oceania | 158 | 74 | 57 | 65 | 58 | 60 | 35 | 22 | 25 | 33 | 78 | -58% |
| Total OECD | 523 | 400 | 331 | 314 | 321 | 304 | 307 | 315 | 282 | 282 | 323 | -13% |
| | 020 | | | • | 02. | | | 0.0 | | | 020 | 1070 |
| Naphtha | | _ | | | | _ | _ | _ | _ | _ | _ | 000101 |
| Americas | 4 | 2 | 1 | 1 | 4 | 2 | 5 | 2 | 7 | 2 | 0 | 6321% |
| Europe | 360 | 320 | 390 | 377 | 427 870 | 452 | 377 1012 | 334 | 348 | 486 1027 | 362 660 | 34% 56% |
| Asia Oceania | 924 | 898 | 835 | 744 | 870 | 948 | 1012 | 1108 | 1069 | 1027 | 660 | 56% |
| Total OECD | 1288 | 1220 | 1226 | 1122 | 1301 | 1402 | 1394 | 1444 | 1424 | 1514 | 1021 | 48% |
| Gasoline ³ | | | | | | | | | | | | |
| Americas | 271 | 308 | 194 | 167 | 174 | 330 | 312 | 349 | 261 | 214 | 181 | 19% |
| Europe | 105 | 108 | 104 | 103 | 98 | 152 | 94 | 116 | 140 | 65 | 101 | -36% |
| Asia Oceania | 90 | 88 | 109 | 116 | 144 | 189 | 135 | 163 | 108 | 141 | 126 | 11% |
| Total OECD | 466 | 504 | 406 | 386 | 417 | 671 | 542 | 628 | 509 | 420 | 408 | 3% |
| Jet & Kerosene | | | | | | | | | | | | |
| Americas | 56 | 39 | 54 | 47 | 31 | 63 | 65 | 75 | 73 | 110 | 45 | 144% |
| Europe | 445 | 464 | 297 | 278 | 248 | 273 | 319 | 301 | 328 | 347 | 423 | -18% |
| Asia Oceania | 89 | 76 | 63 | 58 | 100 | 71 | 43 | 28 | 51 | 43 | 25 | 69% |
| Total OECD | 590 | 579 | 414 | 382 | 378 | 406 | 428 | 404 | 452 | 501 | 493 | 1% |
| Gasoil/Diesel | | | | | | | | | | | | |
| Americas | 100 | 86 | 103 | 190 | 203 | 94 | 94 | 105 | 108 | 161 | 146 | 11% |
| Europe | 1160 | 1126 | 1062 | 1082 | 1027 | 1095 | 1042 | 1107 | 901 | 1187 | 1150 | 3% |
| Asia Oceania | 253 | 261 | 324 | 316 | 336 | 353 | 345 | 347 | 319 | 366 | 302 | 21% |
| Total OECD | 1513 | 1473 | 1489 | 1588 | 1566 | 1541 | 1480 | 1559 | 1328 | 1715 | 1598 | 7% |
| Heavy Fuel Oil | | | | | | | | | | | | |
| Americas | 147 | 102 | 110 | 97 | 105 | 84 | 78 | 98 | 67 | 95 | 122 | -23% |
| Europe | 185 | 202 | 279 | 295 | 340 | 281 | 394 | 313 | 526 | 170 | 371 | -54% |
| Asia Oceania | 162 | 100 | 88 | 80 | 109 | 116 | 121 | 112 | 115 | 101 | 63 | 62% |
| Total OECD | 493 | 404 | 477 | 472 | 554 | 481 | 593 | 523 | 708 | 366 | 556 | -34% |
| Other Products | | | | | | | | | | | | |
| Americas | 522 | 542 | 514 | 466 | 469 | 631 | 556 | 589 | 503 | 507 | 492 | 3% |
| Europe | 702 | 629 | 352 | 334 | 358 | 337 | 371 | 356 | 371 | 555 | 267 | 108% |
| Asia Oceania | 182 | 184 | 164 | 162 | 176 | 198 | 178 | 127 | 203 | 195 | 159 | 23% |
| Total OECD | 1406 | 1355 | 1030 | 962 | 1004 | 1166 | 1105 | 1072 | 1078 | 1257 | 918 | 37% |
| Total Products | | | | | | | | | | | | |
| Americas | 1115 | 1103 | 998 | 986 | 1005 | 1219 | 1131 | 1234 | 1045 | 1110 | 1000 | 11% |
| Europe | 3307 | 3152 | 2735 | 2699 | 2742 | 2817 | 2847 | 2802 | 2846 | 3039 | 2905 | 5% |
| Asia Oceania | 1857 | 1681 | 1640 | 1540 | 1793 | 1934 | 1871 | 1908 | 1890 | 1906 | 1413 | 35% |
| Total OECD | 6279 | 5936 | 5373 | 5225 | 5540 | 5971 | 5849 | 5945 | 5780 | 6055 | 5317 | 14% |
| Total Oil | | | | | | | | | | | | |
| Americas | 4721 | 3656 | 2818 | 2533 | 2620 | 3227 | 3408 | 3451 | 3418 | 3052 | 2622 | 16% |
| Europe | 12395 | 12064 | 9850 | 9485 | 9385 | 9927 | 10255 | 10266 | 10219 | 11210 | 9550 | 17% |
| Asia Oceania | 8106 | 7595 | 6716 | 6543 | 6503 | 6775 | 6656 | 7020 | 6758 | 7075 | 6229 | 14% |
| Total OECD | 25223 | 23316 | 19384 | 18561 | 18508 | 19928 | 20319 | 20736 | 20395 | 21336 | 18400 | 16% |
| | _3223 | | .0304 | .0001 | | .5525 | _00,0 | _0.00 | | 500 | 10-100 | . 5 70 |

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

Tables Oil Market Report

| | | | | | Tab | le 7b | | | | | | |
|-----------------------|------|------|------|----------|--------|--------|--------|--------------------|--------|--------|--------|----------|
| | | | INT | ER-REGIO | ONAL C | DECD T | RANSFE | ERS ^{1,2} | | | | |
| | | | | | | | | | | | Year E | arlier |
| | 2018 | 2019 | 2020 | 4Q20 | 1Q21 | 2Q21 | 3Q21 | Aug 21 | Sep 21 | Oct 21 | | % change |
| Crude Oil | | | | | | | | | | | | |
| Americas | 153 | 145 | 60 | 78 | 83 | 104 | 92 | 90 | 64 | 125 | 99 | 26% |
| Europe | 726 | 959 | 1234 | 1268 | 1137 | 1272 | 1309 | 1328 | 1380 | 1184 | 1169 | 1% |
| Asia Oceania | 448 | 628 | 527 | 508 | 627 | 619 | 646 | 701 | 610 | 652 | 646 | 1% |
| Total OECD | 1326 | 1731 | 1821 | 1853 | 1846 | 1995 | 2047 | 2119 | 2054 | 1960 | 1914 | 2% |
| LPG | | | | | | | | | | | | |
| Americas | 7 | 3 | 6 | 8 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0% |
| Europe | 107 | 131 | 171 | 197 | 150 | 193 | 138 | 78 | 170 | 108 | 239 | -55% |
| Asia Oceania | 395 | 508 | 501 | 442 | 584 | 495 | 493 | 482 | 482 | 483 | 417 | 16% |
| Total OECD | 508 | 642 | 678 | 647 | 737 | 688 | 631 | 560 | 652 | 591 | 656 | -10% |
| Naphtha | | | | | | | | | | | | |
| Americas | 4 | 3 | 6 | 4 | 3 | 4 | 6 | 4 | 7 | 1 | 5 | -75% |
| Europe | 31 | 27 | 20 | 33 | 99 | 62 | 71 | 42 | 89 | 103 | 44 | 132% |
| Asia Oceania | 97 | 96 | 170 | 144 | 217 | 128 | 216 | 157 | 185 | 141 | 80 | 76% |
| Total OECD | 132 | 125 | 196 | 181 | 319 | 195 | 293 | 203 | 281 | 245 | 130 | 89% |
| Gasoline ³ | | | | | | | | | | | | |
| Americas | 502 | 509 | 373 | 398 | 423 | 744 | 661 | 590 | 676 | 448 | 371 | 21% |
| Europe | 5 | 4 | 5 | 5 | 3 | 7 | 5 | 4 | 6 | 3 | 5 | -31% |
| Asia Oceania | 23 | 26 | 18 | 0 | 11 | 8 | 0 | 0 | 0 | 0 | 0 | 54% |
| Total OECD | 530 | 539 | 396 | 403 | 437 | 759 | 666 | 594 | 683 | 451 | 376 | 20% |
| Jet & Kerosene | | | | | | | | | | | | |
| Americas | 84 | 136 | 104 | 99 | 77 | 103 | 142 | 144 | 180 | 128 | 118 | 8% |
| Europe | 64 | 56 | 40 | 18 | 33 | 19 | 45 | 57 | 19 | 35 | 35 | 1% |
| Asia Oceania | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | na |
| Total OECD | 148 | 192 | 144 | 116 | 110 | 122 | 187 | 201 | 199 | 163 | 153 | 7% |
| Gasoil/Diesel | | | | | | | | | | | | |
| Americas | 25 | 32 | 32 | 66 | 64 | 55 | 60 | 45 | 90 | 106 | 30 | 248% |
| Europe | 178 | 174 | 131 | 96 | 72 | 77 | 113 | 143 | 70 | 78 | 173 | -55% |
| Asia Oceania | 0 | 1 | 4 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | -100% |
| Total OECD | 203 | 207 | 167 | 166 | 136 | 132 | 173 | 188 | 159 | 184 | 213 | -14% |
| Heavy Fuel Oil | | | | | | | | | | | | |
| Americas | 15 | 14 | 33 | 33 | 11 | 12 | 13 | 22 | 13 | 34 | 66 | -48% |
| Europe | 12 | 21 | 16 | 15 | 29 | 34 | 20 | 28 | 9 | 46 | 17 | 170% |
| Asia Oceania | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | na |
| Total OECD | 27 | 36 | 49 | 47 | 39 | 46 | 34 | 50 | 22 | 80 | 83 | -4% |
| Other Products | | | | | | | | | | | | |
| Americas | 157 | 171 | 78 | 48 | 38 | 67 | 51 | 43 | 38 | 29 | 65 | -56% |
| Europe | 308 | 236 | 222 | 158 | 157 | 175 | 203 | 239 | 174 | 188 | 147 | 28% |
| Asia Oceania | 81 | 83 | 77 | 70 | 70 | 62 | 88 | 79 | 81 | 86 | 75 | 15% |
| Total OECD | 546 | 490 | 377 | 276 | 264 | 304 | 342 | 361 | 294 | 303 | 287 | 6% |
| Total Products | | | | | | | | | | | | |
| Americas | 793 | 867 | 631 | 655 | 618 | 986 | 933 | 847 | 1005 | 746 | 655 | 14% |
| Europe | 706 | 649 | 604 | 522 | 543 | 566 | 595 | 591 | 538 | 561 | 660 | -15% |
| Asia Oceania | 597 | 716 | 770 | 660 | 881 | 693 | 797 | 717 | 748 | 711 | 583 | 22% |
| Total OECD | 2095 | 2232 | 2005 | 1836 | 2043 | 2246 | 2326 | 2156 | 2290 | 2017 | 1898 | 6% |
| Total Oil | | | | | | | | | | | | |
| Americas | 945 | 1012 | 691 | 733 | 701 | 1090 | 1025 | 938 | 1069 | 870 | 754 | 15% |
| Europe | 1432 | 1608 | 1838 | 1789 | 1681 | 1839 | 1904 | 1919 | 1918 | 1745 | 1829 | -5% |
| Asia Oceania | 1044 | 1343 | 1297 | 1168 | 1508 | 1312 | 1444 | 1419 | 1358 | 1363 | 1229 | 11% |
| Total OECD | 3421 | 3963 | 3827 | 3690 | 3889 | 4241 | 4373 | 4275 | 4345 | 3977 | 3811 | 4% |

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

| Table 8 |
|---|
| REGIONAL OECD CRUDE IMPORTS BY SOURCE ¹ (thousand barrels per day) |

| | | | | | | | | | | | Year E | arlior |
|---|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|--------------|
| | 2018 | 2019 | 2020 | 4Q20 | 1Q21 | 2Q21 | 3Q21 | Aug 21 | Sep 21 | Oct 21 | Oct 20 | |
| | | | | | | | | | | | | |
| OECD Americas | EOG | 01 | | | | | | | | | _ | |
| Venezuela Other Central & South America | 506 795 | 81 867 | 745 | 750 | 648 | 689 | 809 | 808 | 961 | 674 | 703 | -29 |
| North Sea | 150 | 143 | 60 | 78 | 83 | 93 | 92 | 90 | 64 | 125 | 99 | -29 26 |
| Other OECD Europe | 130 | 2 | 1 | - | - | 11 | - | - | - | 125 | - | - |
| Non-OECD Europe | - | - | - | - | - | | - | - | _ | - | _ | - |
| Former Soviet Union | 145 | 189 | 91 | 96 | 128 | 295 | 308 | 346 | 271 | 213 | 145 | 68 |
| Saudi Arabia | 983 | 601 | 572 | 293 | 333 | 370 | 484 | 444 | 577 | 386 | 375 | 11 |
| Kuwait | 78 | 45 | 21 | 16 | 7 | 20 | 36 | 24 | 46 | 23 | 25 | -2 |
| Iran | - | - | - | - | 12 | - | - | - | - | - | - | - |
| Iraq | 519 | 331 | 177 | 107 | 115 | 172 | 128 | 131 | 29 | 185 | 121 | 65 |
| Oman United Arab Emirates | 5 | 3 | - 5 | 10 | - | - | 44 | 31 | 69 | 33 | 31 | 3 |
| Other Middle East | - | - | - | - | - | | - 44 | 31 | - 09 | - | 31 | - |
| West Africa ² | 317 | 267 | 145 | 188 | 207 | 273 | 255 | 244 | 187 | 177 | 169 | 8 |
| Other Africa | 196 | 137 | 45 | 67 | 149 | 172 | 167 | 172 | 157 | 217 | 21 | 196 |
| Asia | 61 | 32 | 17 | 11 | 17 | 16 | 46 | 16 | 77 | 32 | 32 | 0 |
| Other | 3 | 0 | 3 | 10 | - | - | - | | - | - | - | - |
| Total | 3759 | 2698 | 1880 | 1625 | 1698 | 2111 | 2369 | 2307 | 2437 | 2066 | 1721 | 346 |
| of which Non-OECD | 3606 | 2553 | 1820 | 1547 | 1615 | 2007 | 2277 | 2216 | 2373 | 1942 | 1622 | 320 |
| 050D F | | | | | | | | | | | | |
| OECD Europe Canada | 81 | 60 | 95 | 117 | 108 | 81 | 89 | 94 | 67 | 44 | 107 | 60 |
| Mexico + USA | 645 | 900 | 95 1139 | 117 | 108 | 1191 | 1220 | 1233 | 1313 | 1139 | 107 | -63 77 |
| Venezuela | 57 | 106 | 44 | 13 | 1023 | - | 1220 | 1200 | 1010 | - | 38 | - '' |
| Other Central & South America | 132 | 118 | 208 | 205 | 143 | 272 | 246 | 307 | 208 | 122 | 202 | -80 |
| Non-OECD Europe | 12 | 14 | 25 | 34 | 23 | 19 | 28 | 23 | 27 | 24 | 54 | -30 |
| Former Soviet Union | 4149 | 4240 | 3506 | 3270 | 3306 | 3466 | 3498 | 3526 | 3471 | 3802 | 3392 | 410 |
| Saudi Arabia | 818 | 792 | 756 | 602 | 517 | 484 | 589 | 602 | 599 | 614 | 585 | 29 |
| Kuwait | 137 | 97 | 48 | 30 | - | - | 0 | | - | 0 | - | - |
| Iran | 536 | 74 | 6 | 2 | 702 | - 046 | 6 | 17 915 | - | 1000 | 2 | 242 |
| Iraq Oman | 962 | 1124 | 814 | 759 | 783 | 916 | 928 | 915 | 898 | 1099 | 757 | 342 |
| United Arab Emirates | 2 | 2 | - | - | - | - | - | - | - | - | - | - |
| Other Middle East | - | 3 | 8 | 1 | 6 | 12 | 12 | 18 | 18 | 18 | 2 | 16 |
| West Africa ² | 1115 | 1140 | 1074 | 976 | 780 | 719 | 855 | 928 | 696 | 1001 | 1101 | -101 |
| Other Africa | 1161 | 1180 | 596 | 858 | 1071 | 1204 | 1217 | 1085 | 1417 | 1470 | 487 | 983 |
| Asia | - | - | 0 | - | - | - | 0 | | 0 | - | - | - |
| Other | 9 | 13 | 11 | 5 | - | - | 5 | 15 | - | 16 | 14 | 2 |
| Total | 9816 | 9863 | 8330 | 8022 | 7767 | 8364 | 8692 | 8764 | 8714 | 9349 | 7803 | 1546 |
| of which Non-OECD | 9088 | 8913 | 7115 | 6786 | 6643 | 7109 | 7408 | 7463 | 7374 | 8171 | 6645 | 1526 |
| OECD Asia Oceania | | | | | | | | | | | | |
| Canada | 3 | 5 | 1 | - | 17 | 38 | 5 | 6 | 10 | _ | - | - |
| Mexico + USA | 344 | 613 | 477 | 444 | 493 | 491 | 554 | 593 | 497 | 497 | 578 | -82 |
| Venezuela | - | - | - | - | - | - | - | - | - | - | - | - |
| Other Central & South America | 35 | 48 | 91 | 114 | 107 | 145 | 93 | 76 | 88 | 60 | 131 | -71 |
| North Sea | 100 | 10 | 49 | 64 | 116 | 90 | 87 | 102 | 103 | 156 | 68 | 88 |
| Other OECD Europe | - | - | - | - | - | - | - | | - | - | - | - |
| Non-OECD Europe Former Soviet Union | 435 | 435 | 300 | 295 | 328 | 372 | 265 | 321 | 264 | 435 | 234 | 200 |
| Saudi Arabia | 2040 | 1878 | 1867 | 1976 | 1868 | 1574 | 1601 | 1766 | 1650 | 1729 | 1964 | -235 |
| Kuwait | 672 | 666 | 584 | 508 | 482 | 484 | 493 | 437 | 495 | 570 | 514 | 56 |
| Iran | 274 | 137 | - | - | - | - | - | - | - | - | - | - |
| Iraq | 435 | 364 | 224 | 205 | 151 | 165 | 160 | 161 | 131 | 126 | 111 | 15 |
| Oman | 56 | 59 | 22 | 19 | 15 | 43 | 49 | 65 | 17 | 49 | 39 | 10 |
| United Arab Emirates | 1098 | 1256 | 1096 | 960 | 908 | 1094 | 1143 | 1275 | 1118 | 1039 | 1001 | 38 |
| Other Middle East | 450 | 449 | 387 | 374 | 396 | 383 | 371 | 332 | 466 | 313 | 293 | 20 |
| West Africa ² | 95 | 56 | 65 | 49 | 46 | 119 | 77 | 76 | 65 | 124 | 53 | 70 |
| Other Africa | 105 | 90 | 42 | 23 | 59 | 35 | 68 174 | 100 | 60 | 33 | 23 | 9 |
| Non-OECD Asia Other | 319 235 | 220 255 | 161 234 | 207 268 | 193 155 | 161 264 | 174 285 | 184 304 | 191 322 | 181 504 | 212 239 | -31 264 |
| Total | | 6542 | | | | | | | 5478 | | 5462 | |
| of which Non-OECD | 6697 6249 | 5914 | 5602 5076 | 5505 5003 | 5336 4710 | 5455 4840 | 5424 4785 | 5797 5112 | 4868 | 5815 5169 | 4816 | 353 353 |
| | | | | | | | | | | | | |
| Total OECD Trade of which Non-OECD | 20271 18943 | 19103 17380 | 15812 14011 | 15152 13336 | 14801 12968 | 15931 13957 | 16484 14470 | 16867 14792 | 16629 14615 | 17230 15282 | 14986 13083 | 2244 2199 |
| 1 Record on Monthly Oil Questionnaire data submitte | | | | | | | | | | 13202 | 13003 | 2133 |

Based on Monthly Oil Questionnaire data submitted by OECD countries in tonnes, and converted to barrels at 7.37 barrels per tonne. Data will differ from Table 6 which is based on submissions in barrels.

2 West Africa includes Angola, Nigeria, Gabon, Equatorial Guniea, Congo and Democratic Republic of Congo.

| Table 9 REGIONAL OECD GASOLINE IMPORTS BY SOURCE ¹ | | | | | | | | | | | | | |
|--|--------|-------|--------|------------------------|-----------------------|------|-------|-------------------|--------|--------|---------|--------|--|
| F | REGION | IAL O | ECD GA | SOLINI ousand barre | E IMP(ls per day) | ORTS | BY SO | URCE ¹ | | | | | |
| | | | | | | | | | | | Year Ea | arlier | |
| | 2018 | 2019 | 2020 | 4Q20 | 1Q21 | 2Q21 | 3Q21 | Aug 21 | Sep 21 | Oct 21 | Oct 20 | change | |
| OECD Americas | | | | | | | | | | | | | |
| Venezuela | 23 | 4 | - | - | - | - | - | - | - | - | - | - | |
| Other Central & South America | 64 | 83 | 40 | 24 | 10 | 67 | 37 | 50 | 49 | 72 | 14 | 58 | |
| ARA (Belgium Germany Netherlands) | 167 | 189 | 146 | 138 | 127 | 312 | 240 | 227 | 211 | 97 | 75 | 22 | |
| Other Europe | 323 | 293 | 207 | 241 | 275 | 380 | 381 | 328 | 418 | 299 | 289 | 10 | |
| FSU | 80 | 100 | 67 | 89 | 100 | 112 | 105 | 147 | 69 | 79 | 82 | -4 | |
| Saudi Arabia | 11 | 7 | 6 | - | 4 | 50 | 41 | 41 | 16 | - | - | - | |
| Algeria | 1 | - | 4 | - | 4 | - | - | - | - | - | - | - | |
| Other Middle East & Africa | 19 | 14 | 13 | 20 | 23 | 12 | 15 | 13 | 10 | - | 51 | - | |
| Singapore | 8 | 5 | 1 | - | 4 | 3 | 8 | 9 | 10 | 9 | - | - | |
| OECD Asia Oceania | 13 | 28 | 21 | 19 | 21 | 52 | 43 | 44 | 47 | 52 | 7 | 45 | |
| Non-OECD Asia (excl. Singapore) | 84 | 116 | 72 | 53 | 47 | 99 | 116 | 107 | 110 | 73 | 54 | 19 | |
| Other | 0 | 0 | - | - | 0 | - | - | - | - | - | - | - | |
| Total ² | 794 | 838 | 578 | 585 | 615 | 1088 | 986 | 967 | 941 | 680 | 572 | 108 | |
| of which Non-OECD | 271 | 308 | 194 | 167 | 174 | 330 | 312 | 349 | 261 | 214 | 181 | 34 | |
| | | | | | | | | | | | | | |
| OECD Europe | | | • | | | _ | | | | | _ | | |
| OECD Americas | 4 | 3 | 3 | 4 | 2 | 5 | 4 | 3 | 4 | 3 | 5 | -2 | |
| Venezuela | 0 | 0 | 0 | - | 1 | 1 | 5 | - | 10 | - | - | - | |
| Other Central & South America | 5 | 3 | 4 | 5 | 8 | 2 | 6 | 6 | 11 | 14 | 1 | 13 | |
| Non-OECD Europe | 11 | 18 | 16 | 12 | 9 | 16 | 10 | 10 | 10 | 3 | 14 | -12 | |
| FSU | 70 | 62 | 44 | 41 | 25 | 16 | 34 | 50 | 24 | 11 | 13 | -1 | |
| Saudi Arabia | 2 | 0 | 8 | 21 | - | - | 12 | - | 36 | 0 | 64 | -63 | |
| Algeria | 0 | 0 | 1 | - | - | - | - | - | - | - | - | - | |
| Other Middle East & Africa | 4 | 8 | 3 | 3 | 8 | 6 | 2 | 1 | 3 | 4 | 2 | 2 | |
| Singapore | 2 | 3 | 2 | 1 | - | - | 0 | 0 | 0 | 0 | 2 | -2 | |
| OECD Asia Oceania | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 0 | - | - | |
| Non-OECD Asia (excl. Singapore) | 2 | 0 | 0 | 2 | 3 | 2 | 2 | 4 | 2 | 4 | - | - | |
| Other | 20 | 21 | 37 | 27 | 57 | 117 | 40 | 60 | 54 | 37 | 11 | 26 | |
| Total ² | 122 | 121 | 120 | 116 | 113 | 168 | 116 | 135 | 157 | 77 | 112 | -36 | |
| of which Non-OECD | 105 | 108 | 104 | 103 | 98 | 152 | 94 | 116 | 140 | 65 | 101 | -36 | |
| OECD Asia Oceania | | | | | | | | | | | | | |
| OECD Americas | 4 | 6 | 4 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Venezuela | - | - | - | - | - | - | - | - | - | - | - | - | |
| Other Central & South America | - | - | - | - | - | - | - | - | - | - | - | - | |
| ARA (Belgium Germany Netherlands) | 13 | 14 | 4 | - | 9 | 7 | 0 | - | 0 | - | - | _ | |
| Other Europe | 7 | 5 | 10 | - | - | - | - | - | - | - | - | _ | |
| FSU | 1 | 0 | 2 | - | - | - | - | - | - | - | - | - | |
| Saudi Arabia | 0 | 1 | - | - | - | - | - | - | - | - | - | - | |
| Algeria | - | - | - | - | - | - | - | - | - | - | - | - | |
| Other Middle East & Africa | 1 | - | 1 | - | - | - | - | - | - | - | - | - | |
| Singapore | 49 | 46 | 51 | 44 | 86 | 98 | 97 | 119 | 86 | 121 | 36 | 85 | |
| Non-OECD Asia (excl. Singapore) | 19 | 21 | 37 | 52 | 39 | 58 | 19 | 25 | 2 | 0 | 71 | -71 | |
| Other | 20 | 21 | 19 | 19 | 20 | 33 | 19 | 19 | 20 | 19 | 19 | 0 | |
| Total ² | 114 | 114 | 128 | 116 | 155 | 196 | 135 | 163 | 108 | 141 | 126 | 14 | |
| of which Non-OECD | 90 | 88 | 109 | 116 | 144 | 189 | 135 | 163 | 108 | 141 | 126 | 14 | |
| | | | | | | | | | | | | | |
| Total OECD Trade ² | 1029 | 4072 | 000 | | | | | | | | | | |
| Total OLOD Trade | 1029 | 1073 | 826 | 816 | 883 | 1451 | 1238 | 1264 | 1205 | 897 | 811 | 86 | |

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

| Table 10 |
|---|
| REGIONAL OECD GASOIL/DIESEL IMPORTS BY SOURCE ¹ (thousand barrels per day) |

| | | | | | | | | | | | Year E | arlier |
|-----------------------------------|------|------|------|------|------|------|------|--------|--------|--------|--------|--------|
| | 2018 | 2019 | 2020 | 4Q20 | 1Q21 | 2Q21 | 3Q21 | Aug 21 | Sep 21 | Oct 21 | Oct 20 | |
| | | | | | | | | | | | | |
| OECD Americas | | | | | | | | | | | | |
| Venezuela | 4 | 1 | - | - | - | - | - | - | - | - | - | - |
| Other Central and South America | 30 | 38 | 34 | 39 | 40 | 30 | 24 | 24 | 19 | 16 | 46 | -30 |
| ARA (Belgium Germany Netherlands) | 6 | 5 | 11 | 36 | 51 | 31 | 30 | 9 | 56 | 45 | 25 | 19 |
| Other Europe | 3 | 2 | 5 | 4 | 3 | 9 | 1 | - | 1 | 8 | 5 | 3 |
| FSU | 16 | 6 | 12 | 26 | 35 | 21 | 10 | 1 | 24 | 38 | 15 | 23 |
| Saudi Arabia | 17 | 3 | 8 | 17 | 23 | 9 | 11 | 25 | 8 | 34 | 2 | 32 |
| Algeria | - | - | - | - | - | - | - | - | - | - | - | - |
| Other Middle East and Africa | 8 | 2 | 9 | 29 | 48 | 8 | 18 | 30 | 23 | 25 | 25 | 0 |
| Singapore | 1 | 0 | - | - | - | 2 | 8 | 17 | 7 | - | - | - |
| OECD Asia Oceania | 15 | 24 | 16 | 26 | 10 | 15 | 29 | 36 | 33 | 53 | 0 | 53 |
| Non-OECD Asia (excl. Singapore) | 23 | 30 | 34 | 64 | 48 | 16 | 12 | 9 | 9 | 24 | 54 | -29 |
| Other | - | 7 | 6 | 15 | 8 | 8 | 11 | | 17 | 23 | 4 | 19 |
| Total ² | 124 | 118 | 135 | 256 | 267 | 149 | 154 | 150 | 197 | 267 | 176 | 91 |
| of which Non-OECD | 100 | 86 | 103 | 190 | 203 | 94 | 94 | 105 | 108 | 161 | 146 | 16 |
| | | | | | | | | | | | | |
| OECD Europe | | | | | | | | | | | | |
| OECD Americas | 154 | 138 | 99 | 64 | 34 | 38 | 63 | 88 | 18 | 25 | 134 | -109 |
| Venezuela | - | - | - | - | - | - | - | - | - | - | - | - |
| Other Central and South America | 4 | 0 | 3 | 2 | - | 1 | 1 | 2 | 0 | 1 | 4 | -3 |
| Non-OECD Europe | 39 | 41 | 30 | 33 | 28 | 30 | 27 | 25 | 26 | 34 | 31 | 3 |
| FSU | 714 | 685 | 661 | 633 | 721 | 717 | 583 | 547 | 548 | 506 | 552 | -46 |
| Saudi Arabia | 225 | 205 | 193 | 260 | 131 | 114 | 137 | 151 | 109 | 155 | 334 | -179 |
| Algeria | - | 0 | 2 | - | - | - | - | - | - | - | - | - |
| Other Middle East and Africa | 76 | 83 | 71 | 73 | 65 | 129 | 196 | 221 | 233 | 210 | 81 | 129 |
| Singapore | 14 | 27 | 17 | 13 | 10 | 18 | 20 | 17 | 13 | 20 | 19 | 0 |
| OECD Asia Oceania | 25 | 36 | 32 | 32 | 38 | 39 | 51 | 55 | 51 | 53 | 39 | 15 |
| Non-OECD Asia (excl. Singapore) | 151 | 152 | 101 | 89 | 72 | 108 | 119 | 165 | 83 | 170 | 104 | 66 |
| Other | 12 | 10 | 15 | 10 | 23 | 7 | -17 | 4 | -83 | 123 | 52 | 72 |
| Total ² | 1413 | 1378 | 1224 | 1210 | 1122 | 1201 | 1180 | 1275 | 999 | 1298 | 1350 | -53 |
| of which Non-OECD | 1160 | 1126 | 1062 | 1082 | 1027 | 1095 | 1042 | 1107 | 901 | 1187 | 1150 | 37 |
| | | | | | | | | | | | | |
| OECD Asia Oceania | | | | | | | | | | | | |
| OECD Americas | - | 1 | 4 | 3 | _ | - | - | - | _ | - | 10 | _ |
| Venezuela | - | - | - | - | _ | - | - | - | _ | - | - | _ |
| Other Central and South America | - | - | 0 | 0 | - | - | - | - | - | - | - | - |
| ARA (Belgium Germany Netherlands) | - | - | 0 | - | - | 0 | 0 | - | 0 | 0 | - | - |
| Other Europe | - | - | - | - | - | - | - | - | - | - | - | - |
| FSU | 4 | 4 | 2 | 1 | 1 | 1 | 2 | 4 | 2 | 3 | 2 | 1 |
| Saudi Arabia | 3 | - | - | - | - | - | - | - | - | - | - | - |
| Algeria | - | - | - | - | - | - | - | - | - | - | - | - |
| Other Middle East and Africa | 8 | 7 | 13 | 8 | 13 | - | - | - | - | - | - | - |
| Singapore | 141 | 111 | 91 | 85 | 82 | 92 | 153 | 179 | 149 | 105 | 57 | 48 |
| Non-OECD Asia (excl. Singapore) | 91 | 133 | 208 | 215 | 229 | 249 | 182 | 150 | 162 | 254 | 234 | 20 |
| Other | 5 | 5 | 10 | 8 | 11 | 11 | 9 | 15 | 5 | 5 | 10 | -5 |
| Total ² | 253 | 262 | 328 | 320 | 336 | 353 | 345 | 347 | 319 | 366 | 312 | 54 |
| of which Non-OECD | 253 | 261 | 324 | 316 | 336 | 353 | 345 | 347 | 319 | 366 | 302 | 64 |
| | | | | | | | | | | | | |
| T. () 0500 T. () 2 | 4700 | 4750 | 4607 | 4705 | 4704 | 4700 | 4670 | 4770 | 4545 | 4004 | 4000 | |
| Total OECD Trade ² | 1790 | 1758 | 1687 | 1785 | 1724 | 1703 | 1679 | 1772 | 1515 | 1931 | 1839 | 92 |
| of which Non-OECD | 1513 | 1473 | 1489 | 1588 | 1566 | 1541 | 1480 | 1559 | 1328 | 1715 | 1598 | 117 |

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

Table 11 REGIONAL OECD JET AND KEROSENE IMPORTS BY SOURCE¹

| | | | | | | | | | | | Year Ea | arlier |
|---|---------|------|------|---------|------|--------|--------|--------|--------|---------|---------|--------|
| | 2018 | 2019 | 2020 | 4Q20 | 1Q21 | 2Q21 | 3Q21 | Aug 21 | Sep 21 | Oct 21 | Oct 20 | change |
| | | | | | | | | | | | | |
| OECD Americas | _ | | | | | | | | | | | |
| Venezuela | 6 | 0 | _ | - | - | - | - | - | - | - | - | |
| Other Central and South America | 2 | 7 | 5 | 5 | 3 | - | - | - | - | - | 10 | |
| ARA (Belgium Germany Netherlands) | 0 | - | 4 | 4 | 4 | 0 | 14 | 19 | 15 | - | - 40 | |
| Other Europe | 0 | 0 | 0 | | 6 | 5 0 | 6 0 | 2 | 0 | 29 9 | 10 | 19 |
| FSU Saudi Arabia | 1 | 2 | 6 | - 14 | - | 4 | 4 | 2 | 3 | 32 | - | |
| Algeria | | _ | 1 | 14 | 9 | 0 | 3 | 7 | 3 | 5 | | |
| Other Middle East and Africa | 2 | 10 | 11 | 18 | 6 | 31 | 14 | 25 | 4 | 28 | 29 | -1 |
| Singapore | 6 | 3 | 4 | - | - | 2 | 5 | 11 | 6 | - | - | |
| OECD Asia Oceania | 84 | 136 | 100 | 95 | 67 | 98 | 122 | 123 | 165 | 98 | 107 | -9 |
| Non-OECD Asia (excl. Singapore) | 27 | 14 | 22 | 10 | 13 | 25 | 34 | 20 | 57 | 37 | 7 | 30 |
| Other | 11 | 3 | 4 | - | - | - | 4 | 11 | - | - | - | |
| Total ² | 140 | 175 | 158 | 145 | 108 | 166 | 207 | 219 | 253 | 238 | 163 | 75 |
| of which Non-OECD | 56 | 39 | 54 | 47 | 31 | 63 | 65 | 75 | 73 | 110 | 45 | 65 |
| | | | | | | | | | | | | |
| OECD Europe | 00 | 00 | 40 | | | 0 | • | - | • | | 0 | , |
| OECD Americas Venezuela | 32 1 | 20 | 13 | 1 | 1 | 2 | 3 | 7 | 0 | 8 | 2 | 6 |
| | 1 2 | 1 | 0 | - | - | - | - | - | - | 1 | - | |
| Other Central and South America Non-OECD Europe | 6 | 2 | 0 | - | - | - | - | - | - | 0 | - | |
| FSU | 40 | 45 | 22 | 26 | 34 | 25 | 31 | 22 | 30 | 25 | - 17 | 8 |
| Saudi Arabia | 98 | 105 | 40 | 30 | 36 | 39 | 12 | 5 | 17 | - | 41 | - |
| Algeria | 9 | 11 | 9 | 6 | 6 | 8 | 6 | 9 | 10 | _ | 18 | _ |
| Other Middle East and Africa | 197 | 199 | 155 | 153 | 137 | 136 | 174 | 183 | 141 | 169 | 240 | -71 |
| Singapore | 25 | 29 | 10 | 8 | 3 | 4 | 18 | 31 | 24 | 19 | 22 | -3 |
| OECD Asia Oceania | 32 | 36 | 27 | 16 | 32 | 17 | 42 | 50 | 19 | 27 | 33 | -6 |
| Non-OECD Asia (excl. Singapore) | 69 | 73 | 50 | 54 | 17 | 59 | 62 | 52 | 103 | 116 | 37 | 78 |
| Other | 1 | 2 | 10 | 2 | 12 | 2 | 18 | 0 | 6 | 21 | 48 | -27 |
| Total ² | 512 | 523 | 337 | 296 | 278 | 292 | 366 | 360 | 351 | 385 | 459 | -74 |
| of which Non-OECD | 445 | 464 | 297 | 278 | 248 | 273 | 319 | 301 | 328 | 347 | 423 | -75 |
| | | | | | | | | | | | | |
| OECD Asia Oceania | | | | | | | | | | | | |
| OECD Americas Venezuela | - | - | - | - | - | - | - | - | - | - | - | |
| Other Central and South America | - | - | - | - | - | - | - | - | - | - | - | |
| ARA (Belgium Germany Netherlands) | - | - | - | - | - | - | - | - | - | - | - | |
| Other Europe | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | |
| FSU | - | - | - | _ | - | - | _ | - | - | - | _ | |
| Saudi Arabia | 1 | - | - | _ | - | - | _ | - | - | - | _ | |
| Algeria | - | - | - | _ | _ | - | - | - | - | - | _ | |
| Other Middle East and Africa | 1 | - | - | - | 3 | - | - | - | - | - | - | |
| Singapore | 28 | 21 | 14 | 10 | 6 | 18 | 20 | 20 | 22 | 20 | 1 | 19 |
| Non-OECD Asia (excl. Singapore) | 26 | 29 | 28 | 28 | 55 | 37 | 15 | 1 | 20 | 5 | 16 | -12 |
| Other | 33 | 26 | 21 | 19 | 36 | 17 | 8 | 8 | 8 | 18 | 8 | 10 |
| Total ² | 89 | 76 | 63 | 58 | 100 | 71 | 43 | 28 | 51 | 43 | 25 | 18 |
| of which Non-OECD | 89 | 76 | 63 | 58 | 100 | 71 | 43 | 28 | 51 | 43 | 25 | 18 |
| | | | | | | | | | | | | |
| Total OECD Trade ² | 741 | 774 | 558 | 499 | 486 | 529 | 617 | 607 | 654 | 666 | 648 | 18 |
| of which Non-OECD | 590 | 579 | 414 | 382 | 378 | 406 | 428 | 404 | 452 | 501 | 493 | 7 |

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

Table 12 REGIONAL OECD RESIDUAL FUEL OIL IMPORTS BY SOURCE¹ (thousand barrels per day)

| | | | | | | | | | | | Year E | |
|--|----------|---------|----------|-----------|---------|-----------|----------|----------|---------|----------|----------|-----------|
| | 2018 | 2019 | 2020 | 4Q20 | 1Q21 | 2Q21 | 3Q21 | Aug 21 | Sep 21 | Oct 21 | Oct 20 | change |
| OFOR American | | | | | | | | | | | | |
| OECD Americas | 40 | 7 | | | | | | | | | | |
| Venezuela | 42 72 | 7 50 | - 52 | 38 | 29 | - 25 | - | 32 | - 47 | - 58 | - 47 | 11 |
| Other Central and South America | 72 | 50 6 | 52 12 | 38 15 | 29 3 | 25 2 | 39 9 | 32 14 | 12 | 58 10 | 47 28 | -18 |
| ARA (Belgium Germany Netherlands) Other Europe | 7 | 8 | 21 | 15 | 8 | 10 | 4 | 6 | 12 | 24 | 28 38 | -16 |
| FSU | 23 | 30 | 44 | 51 | 62 | 36 | 19 | 23 | 15 | 29 | 69 | -39 |
| Saudi Arabia | - | 2 | 2 | - | - | 0 | - | 25 | - | - | - | -33 |
| Algeria | _ | 8 | 2 | _ | 8 | 4 | 3 | 0 | - | 6 | _ | |
| Other Middle East and Africa | 7 | 5 | 10 | 7 | 6 | 11 | 15 | 43 | - | 1 | 6 | -6 |
| Singapore | - | 1 | 1 | - | - | - | 2 | - | 6 | - | - | |
| OECD Asia Oceania | - | - | - | - | _ | _ | 1 | 2 | - | - | - | |
| Non-OECD Asia (excl. Singapore) | 0 | 0 | - | - | - | 8 | 0 | 0 | - | - | _ | |
| Other | 2 | - | - | - | - | - | - | - | - | - | - | |
| Total ² | 161 | 117 | 145 | 129 | 116 | 96 | 91 | 120 | 81 | 129 | 189 | -60 |
| of which Non-OECD | 147 | 102 | 110 | 97 | 105 | 84 | 78 | 98 | 67 | 95 | 122 | -28 |
| | | | | | | | | | | | | |
| OECD Europe | | _ | | | | | | | | | | |
| OECD Americas | 4 | 7 | 12 | 12 | 28 | 32 | 16 | 28 | 2 | 39 | 17 | 22 |
| Venezuela | - | - | - | - | - | - | - 40 | - | - | - | - | |
| Other Central and South America | 3 17 | 5 21 | 6 13 | 5 | 5 12 | 1 | 18 12 | 23 21 | 29 9 | 1 9 | 9 21 | -8 -12 |
| Non-OECD Europe FSU | 154 | 154 | 149 | 21 156 | 272 | 13 154 | 282 | 151 | 410 | 238 | 238 | -12 |
| Saudi Arabia | 154 | 154 | 149 | 100 | 212 | 154 | 282 | 151 | 410 | 236 | 236 | Ü |
| Algeria | 1 | 0 | 2 | | 3 | - | 2 | 6 | - | 8 | | |
| Other Middle East and Africa | 15 | 19 | 13 | 14 | 14 | 10 | 14 | 11 | 20 | 5 | 16 | -11 |
| Singapore | - | 1 | 3 | 4 | 2 | 7 | 2 | 7 | - | 7 | 6 | 1 |
| OECD Asia Oceania | 8 | 14 | 4 | 3 | 0 | 2 | 5 | 0 | 7 | 7 | | |
| Non-OECD Asia (excl. Singapore) | 0 | 3 | - | | - | _ | - | | | - | _ | |
| Other | 5 | 8 | 93 | 99 | 48 | 94 | 78 | 128 | 60 | -93 | 100 | -193 |
| Total ² | 208 | 232 | 295 | 315 | 384 | 313 | 429 | 375 | 536 | 220 | 407 | -187 |
| of which Non-OECD | 185 | 202 | 279 | 295 | 340 | 281 | 394 | 313 | 526 | 170 | 371 | -200 |
| | | | | | | | | | | | | |
| OECD Asia Oceania | | | | | | | | | | | | |
| OECD Americas | 0 | 1 | - | - | - | - | - | - | - | - | - | |
| Venezuela | - | - | - | - | - | - | - | - | - | - | - | |
| Other Central and South America | - | - | 0 | 0 | - | - | - | - | - | - | - | |
| ARA (Belgium Germany Netherlands) | - | - | - | - | - | - | - | - | - | - | - | |
| Other Europe FSU | 40 | 6 | - | - | - | - | - | - | - | - | - | |
| Saudi Arabia | 16 | 6 1 | 5 1 | - | 1 | - 14 | 13 | 3 | - | 24 | - | |
| Algeria | - | - | | _ | - | 14 | 13 | 3 | - | _4 | - | |
| Other Middle East and Africa | 23 | - 27 | 38 | 35 | 32 | 27 | 31 | 30 | 31 | - | 32 | |
| Singapore | 37 | 25 | 18 | 14 | 27 | 44 | 22 | 26 | 26 | 29 | 9 | 20 |
| Non-OECD Asia (excl. Singapore) | 85 | 40 | 26 | 31 | 49 | 30 | 56 | 53 | 57 | 48 | 21 | 27 |
| Other | 0 | 1 | - | - | - | - | - | - | - | - | - | |
| Total ² | 162 | 101 | 88 | 80 | 109 | 116 | 121 | 112 | 115 | 101 | 63 | 39 |
| of which Non-OECD | 162 | 100 | 88 | 80 | 109 | 116 | 121 | 112 | 115 | 101 | 63 | 39 |
| | | | - 55 | | | | | | | | | |
| Total OECD Trade ² | 531 | 450 | 528 | 524 | 609 | 524 | 641 | 607 | 731 | 450 | 658 | -208 |
| of which Non-OECD | 493 | 404 | 477 | 472 | 554 | 481 | 593 | 523 | 708 | 366 | 556 | -189 |
| OF WINCH NOIPOLOD | 433 | 404 | 411 | 412 | JJ4 | 401 | 333 | 323 | 100 | 300 | 330 | -109 |

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

² Total figure excludes intra-regional trade.

| | | | | | Tabl | 0.13 | | | | | | | |
|------------------------|----------------|---------|-------|--------|--------------|-------|-------|---------|--------|--------|--------|--------|--------|
| AVED | | - 4 CIE | CRUD | E COST | | | CDUD | E AND I | | LICT F | | | |
| AVER | AGE IE | A CIF | CRUD | E COST | AND (\$/t | | CRUD | E AND I | PROD | UCTF | 'RICE | :5 | |
| | 2018 | 2019 | 2020 | 1Q20 | 2Q20 | 3Q20 | 4Q20 | Jul 21 | Aug 21 | Sep 21 | Oct 21 | Nov 21 | Dec 21 |
| | | | | | | | | | | • | | | |
| CRUDE OIL PRICES | | | | | | | | | | | | | |
| IEA CIF Average Import | t ¹ | | | | | | | | | | | | |
| IEA Americas | 60.02 | 56.93 | 37.31 | 44.57 | 24.30 | 39.34 | 40.17 | 68.38 | 65.88 | 67.72 | 75.35 | | |
| IEA Europe | 70.52 | 64.25 | 42.91 | 53.74 | 28.30 | 43.29 | 44.02 | 73.44 | 70.34 | 72.52 | | | |
| IEA Asia Oceania | 72.46 | 66.38 | 46.28 | 64.01 | 30.10 | 42.99 | 44.27 | 73.53 | 74.49 | | 78.50 | | |
| IEA Total | 67.77 | 62.75 | 42.19 | 53.85 | 27.58 | 42.11 | 43.01 | 72.00 | 70.13 | 71.45 | 78.59 | | |
| FOB Spot | | | | | | | | | | | | | |
| North Sea Dated | 71.27 | 64.12 | 41.76 | 50.02 | 29.57 | 42.82 | 44.03 | 74.99 | 70.75 | 74.40 | 83.54 | 81.37 | 74.01 |
| Brent (Asia) Mth 1 | 72.23 | 64.86 | 44.86 | 52.63 | 36.46 | 44.20 | 45.86 | 75.36 | 71.12 | 75.70 | 84.27 | 82.58 | 74.82 |
| WTI (Cushing) Mth 1 | 65.20 | 57.03 | 39.25 | 45.57 | 27.95 | 40.90 | 42.63 | 72.46 | 67.73 | 71.56 | 81.36 | 79.18 | 71.53 |
| Urals (Mediterranean) | 70.17 | 64.31 | 41.93 | 48.97 | 30.29 | 43.39 | 44.49 | 73.09 | 68.08 | 72.65 | 81.93 | 80.08 | 73.07 |
| Dubai (1st month) | 69.65 | 63.49 | 42.36 | 50.41 | 31.17 | 42.80 | 44.62 | 72.88 | 69.32 | 72.57 | 81.46 | 80.21 | 73.25 |
| Tapis (Dated) | 72.16 | 43.28 | 72.80 | 56.06 | 28.66 | 43.69 | 44.21 | 77.33 | 72.22 | 76.30 | 86.39 | 85.09 | 78.88 |
| PRODUCT PRICES | | | | | | | | | | | | | |
| Rotterdam, Barges FO | 3 | | | | | | | | | | | | |
| Premium Unl 10 ppm | 78.78 | 71.35 | 44.65 | 53.77 | 30.56 | 46.58 | 46.99 | 86.22 | 84.32 | 86.31 | 95.92 | 93.21 | 82.88 |
| Naphtha | 64.48 | 56.27 | 39.64 | 45.86 | 26.52 | 41.90 | 43.64 | 75.26 | 72.43 | 76.04 | 85.37 | 82.33 | 78.27 |
| Jet/Kerosene | 86.39 | 79.24 | 44.79 | 60.06 | 29.76 | 41.92 | 46.75 | 78.49 | 75.92 | 82.07 | 94.81 | 90.46 | 85.18 |
| ULSD 10ppm | 86.22 | 79.45 | 49.32 | 62.85 | 37.55 | 47.49 | 48.86 | 80.29 | 77.67 | 84.35 | 96.92 | 92.83 | 86.38 |
| Gasoil 0.1 % | 84.28 | 77.73 | 48.10 | 61.41 | 36.43 | 45.99 | 48.05 | 79.15 | 76.03 | 82.90 | 95.22 | 90.67 | 84.69 |
| LSFO 1% | 63.22 | 62.21 | 42.78 | 52.84 | 30.10 | 41.34 | 46.27 | 72.02 | 69.35 | 74.86 | 82.72 | 78.61 | 74.57 |
| HSFO 3.5% | 61.13 | 50.31 | 34.43 | 33.39 | 24.05 | 38.33 | 41.40 | 63.99 | 61.71 | 66.05 | 74.26 | 67.40 | 64.43 |
| Mediterranean, FOB Ca | rgoes | | | | | | | | | | | | |
| Premium Unl 10 ppm | 79.41 | 71.31 | 45.59 | 54.91 | 31.91 | 47.45 | 47.42 | 86.87 | 84.87 | 87.66 | 96.59 | 91.68 | 84.94 |
| Naphtha | 66.08 | 54.43 | 37.81 | 43.27 | 23.72 | 40.74 | 42.80 | 74.03 | 71.28 | 74.92 | 83.83 | 80.76 | 75.50 |
| Jet Aviation Fuel | 85.37 | 77.76 | 43.28 | 58.08 | 27.43 | 40.88 | 46.01 | 77.48 | 75.05 | 81.21 | 93.58 | 89.29 | 83.07 |
| ULSD 10ppm | 86.03 | 79.05 | 48.76 | 61.86 | 36.15 | 47.45 | 49.02 | 80.19 | 77.54 | 84.05 | 96.44 | 91.96 | 85.03 |
| Gasoil 0.1 % | 84.74 | 77.70 | 47.60 | 60.94 | 34.06 | 46.32 | 48.48 | 79.20 | 76.65 | 82.81 | | 90.64 | 83.90 |
| LSFO 1% | 64.31 | 63.90 | 44.06 | 54.94 | 31.39 | 42.26 | 47.07 | 72.71 | 70.60 | 75.89 | | 80.30 | 76.33 |
| HSFO 3.5% | 62.06 | 52.17 | 34.36 | 35.67 | 24.32 | 37.23 | 39.72 | 62.36 | 60.35 | 65.26 | 73.08 | 66.01 | 62.67 |
| US Gulf, FOB Pipeline | | | | | | | | | | | | | |
| Super Unleaded | 85.71 | 79.24 | 50.64 | 60.05 | 39.80 | 52.55 | 52.94 | 98.99 | 96.43 | 97.33 | 105.98 | 100.72 | 92.61 |
| Unleaded | 80.10 | 72.28 | 46.02 | 54.57 | 34.95 | 49.24 | 49.93 | 92.39 | 91.17 | 91.63 | 101.08 | 95.45 | 88.83 |
| Jet/Kerosene | 85.12 | 78.81 | 46.20 | 58.25 | 32.58 | 45.02 | 49.16 | 79.25 | 76.45 | 84.05 | 96.22 | 92.43 | 87.63 |
| ULSD 10 ppm | 85.94 | 79.09 | 50.17 | 61.81 | 38.27 | 48.59 | 52.24 | 87.04 | 84.70 | | 103.07 | 97.70 | 91.78 |
| No. 6 3% ² | 60.20 | 52.57 | 34.63 | 35.91 | 24.69 | 37.70 | 40.20 | 60.93 | 60.92 | 65.20 | 72.89 | 66.25 | 63.04 |
| Singapore, FOB Cargo | es | | | | | | | | | | | | |
| Premium Unleaded | 80.21 | 72.55 | 46.65 | 56.85 | 33.23 | 47.32 | 48.72 | 85.14 | 81.13 | 84.06 | 98.48 | 95.01 | 87.92 |
| Naphtha | 67.50 | 57.15 | 40.77 | 47.72 | 28.05 | 43.29 | 43.51 | 75.57 | 71.01 | 75.15 | 84.45 | 84.21 | 77.82 |
| Jet/Kerosene | 85.05 | 77.26 | 44.83 | 58.88 | 30.73 | 42.13 | 47.08 | 77.25 | 74.05 | 79.88 | | 89.09 | 83.47 |
| Gasoil 0.05% | 84.33 | 77.23 | 48.43 | 61.38 | 36.58 | 47.00 | 48.38 | 77.93 | 73.77 | 79.66 | | 90.84 | 84.94 |
| HSFO 180 CST | 67.04 | 58.62 | 39.32 | 43.14 | 29.24 | 40.35 | 44.09 | 66.22 | 65.07 | | 77.52 | 71.15 | 65.86 |
| HSFO 380 CST 4% | 66.01 | 57.57 | 38.25 | 41.71 | 27.95 | 39.59 | 43.26 | 64.56 | 63.34 | 70.30 | 76.02 | 69.87 | 64.79 |

¹ IEA CIF Average Import price for October 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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Table 14 MONTHLY AVERAGE END-USER PRICES FOR PETROLEUM PRODUCTS

| | | | NATIONAL | CURRENCY | * | | | | | US DO | DLLARS | | |
|--------------------|-------------|------------|-----------------------|----------------|--------|----------|---|-------|--------|----------|--------|--------|---------|
| | Total | % chan | ge from | Ex-Tax | % char | nge from | | Total | % char | nge from | Ex-Tax | % char | ge from |
| | Price | Nov-21 | Dec-20 | Price | Nov-21 | Dec-20 | | Price | Nov-21 | Dec-20 | Price | Nov-21 | Dec-2 |
| GASOLINE 1 (pe | er litre) | | | | | | | | | | | | |
| France | 1.633 | - 1.6 | 20.8 | 0.670 | -3.2 | 53.7 | | 1.846 | -2.5 | 12.2 | 0.757 | -4.1 | 42.7 |
| Germany | 1.665 | - 4.4 | 30.8 | 0.744 | -8.0 | 68.3 | | 1.882 | -5.3 | 21.5 | 0.841 | -8.9 | 56.4 |
| Italy | 1.726 | - 1.2 | 21.6 | 0.687 | -2.4 | 57.9 | | 1.951 | -2.1 | 13.0 | 0.776 | -3.3 | 46. |
| Spain | 1.482 | - 1.9 | 26.2 | 0.752 | -3.0 | 51.3 | | 1.675 | -2.8 | 17.3 | 0.850 | -3.9 | 40.5 |
| United Kingdom | 1.458 | - | 27.8 | 0.635 | - | 71.2 | | 1.941 | -1.0 | 26.7 | 0.845 | -1.0 | 69.7 |
| Japan | 166.3 | - 1.5 | 23.4 | 94.6 | -2.4 | 43.6 | | 1.460 | -1.4 | 12.4 | 0.830 | -2.3 | 30.8 |
| Canada | 1.419 | - 2.9 | 32.2 | 0.939 | -3.9 | 45.8 | | 1.109 | -4.6 | 32.4 | 0.734 | -5.6 | 46.0 |
| United States | 0.874 | - 2.6 | 50.7 | 0.744 | -3.0 | 64.2 | | 0.874 | -2.6 | 50.7 | 0.744 | -3.0 | 64.2 |
| AUTOMOTIVE I | DIESEL FOR | NON CO | MMERCIA | L USE (per lit | re) | | | | | | | | |
| France | 1.537 | - 1.1 | 22.5 | 0.672 | -2.0 | 53.8 | | 1.737 | -2.0 | 13.8 | 0.759 | -2.9 | 42.8 |
| Germany | 1.523 | - 2.7 | 38.3 | 0.810 | -4.3 | 69.1 | | 1.721 | -3.6 | 28.5 | 0.915 | -5.1 | 57.1 |
| Italy | 1.591 | - 1.3 | 23.0 | 0.687 | -2.4 | 54.7 | | 1.798 | -2.2 | 14.2 | 0.776 | -3.3 | 43.7 |
| Spain | 1.349 | - 2.4 | 28.1 | 0.736 | -3.5 | 49.9 | | 1.525 | -3.3 | 19.0 | 0.832 | -4.4 | 39.2 |
| United Kingdom | 1.496 | 0.1 | 25.8 | 0.667 | - | 62.3 | | 1.992 | -0.9 | 24.7 | 0.888 | -1.0 | 60. |
| Japan | 146.3 | - 1.5 | 26.8 | 101.0 | -2.0 | 38.5 | | 1.284 | -1.5 | 15.5 | 0.887 | -2.0 | 26.2 |
| Canada | 1.446 | - 1.2 | 35.3 | 1.011 | -1.6 | 46.7 | | 1.130 | -3.0 | 35.4 | 0.790 | -3.3 | 46. |
| United States | 0.962 | - 2.3 | 40.8 | 0.812 | -2.8 | 51.8 | | 0.962 | -2.3 | 40.8 | 0.812 | -2.8 | 51.8 |
| DOMESTIC HEA | ATING OIL (| per litre) | | | | | | | | | | | |
| France | 1.003 | - 4.9 | 34.2 | 0.679 | -5.9 | 45.7 | | 1.133 | -5.8 | 24.7 | 0.768 | -6.8 | 35.3 |
| Germany | 0.846 | - 7.8 | 62.6 | 0.650 | -8.5 | 67.8 | | 0.956 | -8.7 | 51.0 | 0.734 | -9.4 | 55.8 |
| Italy | 1.380 | - 1.6 | 21.5 | 0.728 | -2.4 | 38.0 | | 1.560 | -2.5 | 12.9 | 0.823 | -3.3 | 28.1 |
| Spain | 0.818 | - 4.3 | 45.9 | 0.579 | -5.0 | 58.0 | | 0.925 | -5.2 | 35.5 | 0.655 | -5.9 | 46.7 |
| United Kingdom | 0.701 | - 2.9 | 46.7 | 0.556 | -3.4 | 61.9 | | 0.933 | -3.8 | 45.4 | 0.740 | -4.4 | 60.4 |
| Japan ² | 107.2 | 0.6 | 36.9 | 94.7 | 0.6 | 38.4 | | 0.941 | 0.7 | 24.7 | 0.831 | 0.7 | 26. |
| Canada | 1.360 | - 1.0 | 39.9 | 1.185 | -1.0 | 38.0 | | 1.063 | -2.8 | 40.0 | 0.926 | -2.8 | 38. |
| United States | - | - | - | - | - | - | | - | - | - | - | - | |
| LOW SULPHUR | FUEL OIL | FOR INDU | JSTRY ³ (p | er kg) | | | | | | | | | |
| France | 0.648 | - 4.3 | 32.7 | 0.509 | -5.4 | 45.7 | | 0.733 | -5.2 | 23.2 | 0.575 | -6.3 | 35. |
| Germany | - | | - | - | - | - | | - | - | - | - | - | |
| Italy | 0.589 | - 3.9 | 46.4 | 0.558 | -4.2 | 50.3 | | 0.666 | -4.8 | 35.9 | 0.630 | -5.0 | 39. |
| Spain | 0.527 | 0.1 | 60.3 | 0.510 | 0.1 | 63.6 | | 0.595 | -0.9 | 48.9 | 0.576 | -0.9 | 52. |
| United Kingdom | - | | - | - | - | - | | - | - | - | - | - | |
| Japan | - | | - | - | - | - | | - | - | - | - | - | |
| Canada | - | | - | - | - | - | | - | - | - | - | - | |
| United States | - | | - | - | _ | - | 1 | - | - | - | - | - | |

Unleaded premium (95 RON) for France, Germany, Italy, Spain, UK, regular unleaded for Canada, Japan 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 Indicator Refining Margins¹

(Stob)

| | | Monthly | Average | | | Change | | Average | for week | ending: | |
|-----------------------------|--------|---------|---------|--------|----------|---------|--------|---------|----------|---------|--------|
| | Sep 21 | Oct 21 | Nov 21 | Dec 21 | | Dec-Nov | 17 Dec | 24 Dec | 31 Dec | 07 Jan | 14 Jan |
| NW Europe | | | | | | | | | | | |
| Brent (Cracking) | 5.11 | 6.44 | 5.01 | 5.11 | 1 | 0.09 | 5.66 | 5.61 | 6.08 | 4.92 | 4.61 |
| Urals (Cracking) | 5.84 | 7.23 | 4.67 | 5.14 | · | 0.47 | 5.47 | 5.99 | 6.68 | 5.42 | 4.37 |
| Brent (Hydroskimming) | 2.60 | 3.22 | 1.64 | 2.89 | · | 1.25 | 3.58 | 3.29 | 3.15 | 2.09 | 1.37 |
| Urals (Hydroskimming) | 1.23 | 1.97 | -1.42 | 0.53 | ↑ | 1.95 | 0.82 | 1.54 | 1.80 | 0.57 | -0.90 |
| Mediterranean | | | | | | | | | | | |
| Es Sider (Cracking) | 6.65 | 7.43 | 4.84 | 6.52 | ↑ | 1.67 | 6.89 | 6.79 | 7.02 | 6.57 | 5.91 |
| Urals (Cracking) | 5.38 | 6.71 | 3.91 | 5.31 | ↑ | 1.40 | 5.72 | 6.18 | 6.29 | 5.74 | 4.89 |
| Es Sider (Hydroskimming) | 4.88 | 4.92 | 2.44 | 4.58 | ↑ | 2.14 | 5.08 | 4.87 | 4.85 | 4.19 | 3.10 |
| Urals (Hydroskimming) | 0.76 | 1.09 | -2.41 | -0.31 | ↑ | 2.10 | 0.02 | 0.76 | 0.68 | -0.25 | -1.62 |
| US Gulf Coast | | | | | | | | | | | |
| Mars (Cracking) | 8.10 | 9.51 | 6.63 | 6.04 | Ψ | -0.60 | 4.73 | 6.90 | 7.86 | 7.81 | 7.85 |
| 50/50 HLS/LLS (Coking) | 16.25 | 17.48 | 14.87 | 14.18 | Ψ | -0.68 | 12.81 | 14.92 | 15.35 | 15.09 | 15.65 |
| 50/50 Maya/Mars (Coking) | 11.22 | 12.12 | 9.73 | 10.70 | ↑ | 0.96 | 9.81 | 11.35 | 11.95 | 11.50 | 11.91 |
| ASCI (Coking) | 12.91 | 14.64 | 12.46 | 11.21 | • | -1.25 | 9.84 | 11.80 | 12.59 | 12.81 | 13.19 |
| US Midwest | | | | | | | | | | | |
| 30/70 WCS/Bakken (Cracking) | 14.03 | 13.06 | 10.59 | 10.65 | ↑ | 0.06 | 10.24 | 9.88 | 10.14 | 8.87 | 7.60 |
| Bakken (Cracking) | 16.55 | 14.78 | 10.98 | 11.45 | ↑ | 0.47 | 10.70 | 10.67 | 11.19 | 10.42 | 8.55 |
| WTI (Coking) | 17.29 | 15.58 | 11.14 | 11.87 | ↑ | 0.73 | 11.15 | 11.26 | 11.67 | 11.94 | 10.81 |
| 30/70 WCS/Bakken (Coking) | 17.12 | 16.08 | 13.84 | 13.59 | • | -0.25 | 12.91 | 12.30 | 12.66 | 11.29 | 9.98 |
| Singapore | | | | | | | | | | | |
| Dubai (Hydroskimming) | 0.03 | 0.30 | -2.74 | -1.12 | ↑ | 1.61 | -0.49 | -0.83 | -1.00 | -1.49 | -1.29 |
| Tapis (Hydroskimming) | 2.25 | 3.50 | 2.40 | 3.45 | ↑ | 1.05 | 4.52 | 3.58 | 4.64 | 1.64 | 1.72 |
| Dubai (Hydrocracking) | 5.18 | 7.78 | 6.58 | 8.24 | ↑ | 1.66 | 8.93 | 8.30 | 8.47 | 8.08 | 8.93 |
| Tapis (Hydrocracking) | 2.22 | 4.70 | 2.91 | 3.23 | 1 | 0.32 | 4.52 | 3.53 | 4.29 | 1.80 | 1.34 |

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.

Source: IEA, KBC Advanced Technologies (KBC)

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

| | | | | | Oct 21 vs Previous | Oct 21 vs Previous | Oct 21 vs 5 Year | 5 Year |
|-------------------|--------|--------|--------|--------|-----------------------|-----------------------|---------------------|---------|
| | Aug-21 | Sep-21 | Oct-21 | Oct-20 | Month | Year | Average | Average |
| OECD Americas | | | | | | | | |
| Naphtha | 1.2 | 1.2 | 1.1 | 1.3 | -0.2 | -0.3 | -0.4 | 1.5 |
| Motor gasoline | 45.7 | 46.7 | 47.1 | 49.7 | 0.5 | -2.6 | -0.5 | 47.6 |
| Jet/kerosene | 7.9 | 7.7 | 7.5 | 5.2 | -0.2 | 2.3 | -0.8 | 8.3 |
| Gasoil/diesel oil | 27.4 | 27.4 | 28.6 | 28.5 | 1.2 | 0.1 | 0.1 | 28.5 |
| Residual fuel oil | 2.7 | 2.9 | 3.0 | 2.7 | 0.1 | 0.3 | -0.2 | 3.2 |
| Petroleum coke | 4.3 | 4.2 | 4.1 | 4.4 | -0.1 | -0.3 | -0.4 | 4.5 |
| Other products | 14.3 | 12.9 | 12.3 | 12.1 | -0.6 | 0.2 | 1.3 | 10.9 |
| OECD Europe | | | | | | | | |
| Naphtha | 8.4 | 8.8 | 8.7 | 8.5 | -0.1 | 0.2 | 0.8 | 8.0 |
| Motor gasoline | 21.2 | 21.3 | 21.7 | 22.8 | 0.4 | -1.1 | 0.5 | 21.2 |
| Jet/kerosene | 6.6 | 6.3 | 6.3 | 4.4 | 0.0 | 1.9 | -1.5 | 7.8 |
| Gasoil/diesel oil | 40.5 | 40.8 | 40.5 | 42.1 | -0.3 | -1.7 | 0.6 | 39.8 |
| Residual fuel oil | 7.7 | 7.8 | 8.1 | 6.9 | 0.3 | 1.2 | -0.9 | 9.0 |
| Petroleum coke | 1.6 | 1.5 | 1.4 | 1.5 | -0.1 | -0.2 | 0.0 | 1.4 |
| Other products | 16.6 | 16.4 | 15.9 | 15.7 | -0.6 | 0.2 | 0.9 | 14.9 |
| OECD Asia Oceania | | | | | | | | |
| Naphtha | 15.6 | 16.3 | 16.6 | 15.5 | 0.4 | 1.1 | 1.0 | 15.7 |
| Motor gasoline | 22.0 | 22.4 | 22.6 | 22.9 | 0.2 | -0.3 | 0.4 | 22.2 |
| Jet/kerosene | 12.2 | 12.4 | 12.3 | 11.3 | 0.0 | 1.0 | -2.5 | 14.8 |
| Gasoil/diesel oil | 30.6 | 30.6 | 30.7 | 32.3 | 0.1 | -1.6 | 1.0 | 29.7 |
| Residual fuel oil | 8.0 | 7.8 | 8.0 | 7.4 | 0.2 | 0.7 | 0.6 | 7.4 |
| Petroleum coke | 0.5 | 0.4 | 0.4 | 0.4 | 0.0 | 0.0 | 0.0 | 0.4 |
| Other products | 12.9 | 12.9 | 12.4 | 12.8 | -0.5 | -0.5 | 0.4 | 11.9 |
| OECD Total | | | | | | | | |
| Naphtha | 6.0 | 6.3 | 6.3 | 6.2 | 0.0 | 0.1 | 0.2 | 6.1 |
| Motor gasoline | 33.8 | 34.2 | 34.6 | 36.2 | 0.3 | -1.7 | 0.1 | 34.4 |
| Jet/kerosene | 8.2 | 8.0 | 7.9 | 6.0 | -0.1 | 1.9 | -1.4 | 9.3 |
| Gasoil/diesel oil | 32.2 | 32.3 | 32.9 | 33.6 | 0.6 | -0.7 | 0.4 | 32.4 |
| Residual fuel oil | 5.2 | 5.3 | 5.6 | 4.9 | 0.2 | 0.7 | -0.3 | 5.9 |
| Petroleum coke | 2.8 | 2.7 | 2.6 | 2.8 | -0.1 | -0.2 | -0.2 | 2.7 |
| Other products | 14.8 | 14.0 | 13.5 | 13.4 | -0.6 | 0.1 | 1.0 | 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 PRODU | JCTION | | | | |
| | | | (thousand b | arrels per day) | | | | | |
| | 2019 | 2020 | 2021 | 2Q21 | 3Q21 | 4Q21 | Oct 21 | Nov 21 | Dec 21 |
| ETHANOL | | | | | | | | | |
| OECD Americas ¹ | 1059 | 934 | 999 | 1021 | 993 | 1049 | 1068 | 1026 | 1051 |
| United States | 1039 | 934 | 969 | 991 | 963 | 1049 | 1008 | 996 | 1031 |
| Other | 30 | 28 | 30 | 30 | 30 | 30 | 1036 | 990 | 1021 |
| OECD Europe ² | 96 | 93 | 103 | 105 | 122 | 104 | 122 | 96 | 96 |
| France | 20 | 16 | 17 | 17 | 27 | 14 | 24 | 9 | 9 |
| Germany | 12 | 11 | 12 | 15 | 17 | 8 | 22 | 1 | 1 |
| Spain | 9 | 8 | 10 | 9 | 9 | 13 | 9 | 15 | 15 |
| United Kingdom | 5 | 5 | 9 | 9 | 11 | 9 | 12 | 7 | 7 |
| Other | 50 | 52 | 55 | 55 | 58 | 61 | | | |
| OECD Asia Oceania ³ | 4 | 4 | 5 | 5 | 4 | 5 | 4 | 5 | 5 |
| Australia | 4 | 4 | 4 | 5 | 3 | 5 | 4 | 5 | 5 |
| Other | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| Total OECD Ethanol | 1160 | 1031 | 1106 | 1131 | 1119 | 1158 | 1194 | 1127 | 1152 |
| Total Non-OECD Ethanol | 796 | 735 | 702 | 873 | 1131 | 510 | 728 | 514 | 287 |
| Brazil | 621 | 560 | 513 | 683 | 942 | 320 | 538 | 324 | 97 |
| China | 67 | 69 | 76 | 76 | 76 | 76 | | | |
| Argentina | 19 | 15 | 18 | 18 | 18 | 18 | | | |
| Other | 89 | 90 | 96 | 96 | 96 | 96 | 190 | 190 | 190 |
| TOTAL ETHANOL | 1957 | 1766 | 1809 | 2004 | 2250 | 1668 | 1922 | 1641 | 1439 |
| BIODIESEL | | | | | | | | | |
| OECD Americas ¹ | 151 | 159 | 164 | 160 | 162 | 186 | 181 | 188 | 188 |
| United States | 145 | 153 | 156 | 154 | 156 | 175 | 175 | 175 | 175 |
| Other | 7 | 6 | 7 | 6 | 6 | 11 | | | |
| OECD Europe ² | 291 | 282 | 316 | 314 | 320 | 349 | 328 | 359 | 359 |
| France | 43 | 41 | 43 | 44 | 50 | 38 | 50 | 31 | 31 |
| Germany | 66 | 60 | 66 | 63 | 71 | 75 | 69 | 78 | 78 |
| Italy | 18 | 28 | 30 | 30 | 30 | 34 | | | |
| Spain | 42 | 31 | 39 | 37 | 37 | 45 | 37 | 50 | 50 |
| Other | 122 | 123 | 138 | 141 | 132 | 157 | 139 | 166 | 166 |
| OECD Asia Oceania ³ | 14 | 14 | 14 | 18 | 16 | 12 | 8 | 14 | 14 |
| Australia | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Other | 14 | 14 | 14 | 18 | 16 | 12 | | | |
| Total OECD Biodiesel | 457 | 455 | 494 | 492 | 498 | 547 | 518 | 562 | 562 |
| Total Non-OECD Biodiesel | 394 | 411 | 437 | 437 | 437 | 437 | 437 | 437 | 437 |
| Brazil | 102 | 111 | 117 | 117 | 117 | 118 | 125 | 111 | 118 |
| Argentina* | 42 | 27 | 36 | 36 | 36 | 36 | | | |
| Other | 251 | 274 | 284 | 284 | 285 | 283 | | | |
| TOTAL BIODIESEL | 851 | 866 | 931 | 930 | 935 | 984 | 955 | 999 | 999 |
| GLOBAL BIOFUELS | 2808 | 2632 | 2740 | 2933 | 3185 | 2652 | 2878 | 2640 | 2438 |

^{*} monthly data not available.

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