

**Table 17**

**Refinery distillation capacity, throughput and output**

Thousand metric tons

**Table Notes**

**Output** is equal to the sum of “production from refineries” for aviation gasoline, bitumen, gas/diesel oil, ethane, feedstocks, gasoline-type jet fuel, kerosene-type jet fuel, other kerosene, liquefied petroleum gas, lubricants, motor gasoline, naphtha, petroleum coke, other oil products, paraffin waxes, fuel oil, refinery gas and white spirits.

**Throughput** is equal to the sum of “transformation in refineries” for conventional crude oil, feedstocks, other hydrocarbons, additives and oxygenates, and natural gas liquids.

Please refer to the Definitions Section on pages ix to xv for the appropriate product description/ classification, and xvi to xvii for the descriptions of relevant flows.

## Refinery distillation capacity, throughput and output

Thousand metric tons

Country or area	Year	Capacity	Throughput	Output
<b>World</b>	<b>2020</b>	<b>5,045,626</b>	<b>4,056,813</b>	<b>3,962,475</b>
	<b>2021</b>	<b>5,105,748</b>	<b>4,287,465</b>	<b>4,163,330</b>
	<b>2022</b>	<b>5,142,579</b>	<b>4,371,144</b>	<b>4,242,654</b>
	<b>2023</b>	<b>5,147,941</b>	<b>4,448,945</b>	<b>4,331,906</b>
<b>Africa</b>	<b>2020</b>	<b>158,390</b>	<b>94,464</b>	<b>87,896</b>
	<b>2021</b>	<b>162,150</b>	<b>94,977</b>	<b>89,641</b>
	<b>2022</b>	<b>172,172</b>	<b>94,361</b>	<b>86,836</b>
	<b>2023</b>	<b>171,765</b>	<b>92,099</b>	<b>90,115</b>
Algeria	2020	32,858	29,068	28,444
	2021	33,466	29,805	28,556
	2022	33,766	31,095	29,450
	2023	33,766	31,076	30,383
Angola	2020	4,005	2,286	1,995
	2021	4,005	1,985	1,869
	2022	4,005	2,361	*2,122
	2023	3,591	2,167	2,051
Chad	2020	*998	*730	*705
	2021	*998	*800	*773
	2022	*998	*800	*776
	2023	*998	*765	*738
Congo	2020	1,047	1,045	937
	2021	1,047	1,045	955
	2022	1,047	996	903
	2023	1,047	1,085	1,024
Côte d'Ivoire	2020	3,800	3,427	3,590
	2021	*4,500	4,339	4,111
	2022	*4,853	4,622	4,448
	2023	*5,476	5,215	5,057
Egypt	2020	39,133	31,448	27,361
	2021	39,143	31,729	29,059
	2022	39,143	31,275	26,696
	2023	39,133	29,716	29,531
Gabon	2020	1,247	834	818
	2021	1,247	957	932
	2022	1,247	964	882
	2023	1,047	970	932
Ghana	2020	2,244	506	496
	2021	2,244	297	285
	2022	*2,244	43	40
	2023	*2,244	196	160
Libya	2020	18,953	4,540	4,445
	2021	18,953	7,443	7,287
	2022	18,953	9,107	8,916
	2023	18,953	6,963	6,817
Morocco	2020	7,716	..	..
	2021	7,716	..	..
	2022	7,716	..	..
	2023	*7,716	..	..
Niger	2020	*1,200	851	809
	2021	*1,200	860	716
	2022	*1,200	779	710
	2023	1,200	921	865

Table 17

## Refinery distillation capacity, throughput and output

Thousand metric tons

Country or area	Year	Capacity	Throughput	Output
Nigeria	2020	10,471	0	0
	2021	*10,471	230	*211
	2022	*10,471	264	235
	2023	*10,471	344	306
Senegal	2020	1,248	821	757
	2021	1,248	896	868
	2022	1,500	634	604
	2023	1,500	1,242	1,192
Sierra Leone	2020	*499	..	..
	2021	*499	..	..
	2022	*499	..	..
	2023	*499	..	..
South Africa	2020	*23,900	13,298	12,434
	2021	25,935	9,803	9,162
	2022	35,053	5,969	5,579
	2023	35,053	*8,341	7,962
South Sudan	2020	..	..	..
	2021	407	123	119
	2022	407	164	159
	2023	..	..	..
Sudan	2020	*6,074	4,124	3,653
	2021	*6,074	2,998	3,091
	2022	*6,074	3,827	3,869
	2023	*6,074	1,913	1,976
Tunisia	2020	*1,800	1,114	1,108
	2021	*1,800	1,610	1,593
	2022	*1,800	1,460	1,445
	2023	*1,800	1,080	1,035
Zambia	2020	*1,197	372	344
	2021	*1,197	57	54
	2022	*1,197	0	0
	2023	*1,197	104	86
<b>Asia</b>	<b>2020</b>	<b>2,354,771</b>	<b>2,013,044</b>	<b>1,989,260</b>
	<b>2021</b>	<b>2,458,937</b>	<b>2,150,643</b>	<b>2,110,086</b>
	<b>2022</b>	<b>2,527,075</b>	<b>2,167,869</b>	<b>2,119,309</b>
	<b>2023</b>	<b>2,539,312</b>	<b>2,281,724</b>	<b>2,223,249</b>
Afghanistan	2020	150	*51	*46
	2021	150	*32	*31
	2022	150	*23	*22
	2023	150	*20	*19
Azerbaijan	2020	*5,985	5,862	5,795
	2021	*7,500	6,595	6,572
	2022	7,500	6,242	6,127
	2023	*7,500	6,239	6,537
Bahrain	2020	13,314	11,093	11,200
	2021	13,314	11,176	11,517
	2022	13,314	12,623	12,628
	2023	13,314	12,243	12,863
Bangladesh	2020	1,920	1,223	1,058
	2021	1,920	1,880	1,777
	2022	1,970	1,591	1,582
	2023	*2,000	*1,966	1,954

## Refinery distillation capacity, throughput and output

Thousand metric tons

Country or area	Year	Capacity	Throughput	Output
Brunei Darussalam	2020	*8,734	8,441	8,223
	2021	*8,734	8,282	7,972
	2022	*8,734	8,643	8,300
	2023	*8,734	8,006	7,695
China	2020	*860,000	815,744	815,190
	2021	*910,000	851,577	850,428
	2022	*981,700	824,397	815,093
	2023	*936,000	902,972	901,214
Georgia	2020	*5,440	37	37
	2021	*5,440	50	50
	2022	*5,440	43	43
	2023	*5,440	52	52
India	2020	249,866	*230,431	231,656
	2021	251,216	*250,656	256,275
	2022	253,916	*270,343	269,158
	2023	256,816	301,104	285,069
Indonesia	2020	57,411	48,124	40,752
	2021	57,411	47,831	40,674
	2022	57,411	46,909	39,603
	2023	57,411	48,186	39,182
Iran (Islamic Rep. of)	2020	109,902	97,465	97,351
	2021	109,825	106,894	103,012
	2022	111,544	109,867	106,037
	2023	111,544	111,982	108,050
Iraq	2020	37,821	27,182	27,139
	2021	48,667	31,307	30,993
	2022	55,648	35,043	34,288
	2023	63,127	39,000	38,935
Israel	2020	*15,225	12,832	12,832
	2021	*15,225	13,497	13,411
	2022	*15,225	14,239	14,202
	2023	*15,225	14,375	14,269
Japan	2020	172,459	122,544	121,293
	2021	171,721	130,281	128,925
	2022	*157,568	137,295	135,661
	2023	*164,549	127,078	125,842
Jordan	2020	*4,509	1,820	1,780
	2021	*4,509	1,738	1,735
	2022	*4,509	1,599	1,596
	2023	5,237	1,801	1,796
Kazakhstan	2020	*21,446	15,801	14,925
	2021	21,446	17,591	17,257
	2022	21,446	19,008	19,090
	2023	21,446	18,784	17,923
Korea, Dem.Ppl's.Rep.	2020	3,494	532	515
	2021	3,494	532	515
	2022	3,494	532	515
	2023	3,494	532	515
Korea, Republic of	2020	159,762	152,301	147,105
	2021	159,762	153,603	147,548
	2022	159,762	163,704	157,730
	2023	159,762	164,153	157,527

Table 17

## Refinery distillation capacity, throughput and output

Thousand metric tons

Country or area	Year	Capacity	Throughput	Output
Kuwait	2020	36,835	28,919	29,540
	2021	39,891	34,366	33,251
	2022	50,113	40,697	38,872
	2023	70,574	52,907	51,502
Kyrgyzstan	2020	800	180	162
	2021	800	283	269
	2022	*800	298	303
	2023	*800	310	326
Malaysia	2020	26,862	22,266	23,759
	2021	39,866	23,123	23,313
	2022	39,866	23,786	24,173
	2023	39,866	25,614	25,253
Myanmar	2020	2,545	238	237
	2021	2,545	183	185
	2022	2,545	190	194
	2023	2,545	194	177
Oman	2020	*15,112	11,309	10,528
	2021	*15,162	12,741	11,511
	2022	*15,162	13,915	12,760
	2023	*26,627	*14,160	12,909
Other Asia	2020	54,946	42,284	43,288
	2021	54,946	44,738	46,493
	2022	54,946	47,405	47,803
	2023	54,946	46,915	46,523
Pakistan	2020	20,400	11,934	11,531
	2021	20,242	11,993	11,567
	2022	20,337	10,415	10,183
	2023	21,065	11,500	11,196
Philippines	2020	*8,978	4,729	4,525
	2021	*8,978	3,933	3,743
	2022	*8,978	5,987	5,661
	2023	*8,978	6,960	6,569
Qatar	2020	21,446	16,829	16,715
	2021	21,446	17,276	17,159
	2022	21,446	17,391	17,275
	2023	21,446	17,514	17,398
Saudi Arabia	2020	146,350	116,776	112,331
	2021	165,895	157,448	140,201
	2022	164,100	142,069	136,827
	2023	164,100	132,685	124,796
Singapore	2020	67,057	41,758	*40,287
	2021	72,818	43,143	*41,591
	2022	64,938	42,445	39,775
	2023	74,314	41,918	39,178
Sri Lanka	2020	2,494	1,752	1,649
	2021	2,494	1,272	1,213
	2022	2,494	530	487
	2023	2,494	1,211	1,164
Syrian Arab Republic	2020	11,963	5,771	5,715
	2021	11,975	2,749	2,487
	2022	11,975	2,609	2,348
	2023	11,980	2,728	2,543

## Refinery distillation capacity, throughput and output

Thousand metric tons

Country or area	Year	Capacity	Throughput	Output
Tajikistan	2020	150	35	16
	2021	150	28	22
	2022	150	25	13
	2023	150	18	13
Thailand	2020	62,070	50,332	49,074
	2021	62,070	49,754	47,887
	2022	*62,070	51,959	48,882
	2023	*62,070	53,902	51,169
Türkiye	2020	*42,000	35,657	35,315
	2021	*42,000	38,095	37,795
	2022	*42,000	41,165	40,821
	2023	*42,000	40,616	40,215
Turkmenistan	2020	*13,017	7,358	7,063
	2021	*13,017	7,253	6,963
	2022	*13,017	7,476	7,177
	2023	*13,017	7,591	7,287
United Arab Emirates	2020	63,441	43,633	41,782
	2021	63,441	48,952	47,615
	2022	61,182	46,305	44,392
	2023	61,182	45,508	46,087
Uzbekistan	2020	5,420	3,616	3,312
	2021	5,420	*3,854	3,572
	2022	*5,420	*3,907	3,785
	2023	*5,420	*4,497	4,484
Viet Nam	2020	*16,484	15,508	14,888
	2021	*16,484	15,317	13,938
	2022	*17,242	16,549	15,286
	2023	*18,000	15,674	14,263
Yemen	2020	8,963	677	645
	2021	*8,963	620	620
	2022	*8,963	646	616
	2023	5,989	809	752
<b>Europe</b>	<b>2020</b>	<b>1,065,547</b>	<b>866,505</b>	<b>843,908</b>
	<b>2021</b>	<b>1,051,336</b>	<b>895,054</b>	<b>869,986</b>
	<b>2022</b>	<b>1,033,681</b>	<b>916,179</b>	<b>889,563</b>
	<b>2023</b>	<b>1,017,387</b>	<b>878,492</b>	<b>869,026</b>
Albania	2020	1,494	134	131
	2021	1,494	165	158
	2022	1,494	121	117
	2023	1,494	172	168
Austria	2020	9,576	8,604	8,438
	2021	9,576	8,522	8,366
	2022	9,576	6,286	6,161
	2023	9,600	8,551	8,238
Belarus	2020	*24,000	16,296	16,083
	2021	*22,444	16,296	16,083
	2022	*16,000	14,639	14,423
	2023	*16,000	15,224	15,036
Belgium	2020	38,703	27,659	27,511
	2021	33,367	30,916	30,722
	2022	31,915	28,933	28,663
	2023	33,865	30,988	30,794

Table 17

## Refinery distillation capacity, throughput and output

Thousand metric tons

Country or area	Year	Capacity	Throughput	Output
Bosnia and Herzegovina	2020	78	13	13
	2021	78	14	13
	2022	78	16	14
	2023	78	17	13
Bulgaria	2020	*9,726	5,315	5,061
	2021	*9,776	4,634	4,437
	2022	*9,776	7,617	7,283
	2023	*9,776	6,792	6,485
Croatia	2020	8,300	2,615	2,560
	2021	8,300	2,455	2,428
	2022	8,300	2,298	2,248
	2023	4,500	2,233	2,184
Czechia	2020	8,728	6,361	6,341
	2021	8,728	7,425	7,399
	2022	8,728	7,752	7,717
	2023	*8,728	7,751	7,712
Denmark	2020	*8,900	8,193	8,176
	2021	*8,778	8,287	8,260
	2022	*8,875	8,187	8,075
	2023	9,100	8,448	8,321
Finland	2020	13,017	13,681	13,549
	2021	12,000	10,212	9,783
	2022	12,000	12,050	11,920
	2023	12,000	12,069	12,062
France	2020	57,600	37,187	36,911
	2021	57,600	36,561	36,175
	2022	58,200	42,671	42,224
	2023	60,400	47,009	46,664
Germany	2020	*104,400	95,400	93,170
	2021	*104,400	95,682	93,398
	2022	*104,400	100,913	98,658
	2023	*104,400	90,390	88,637
Greece	2020	*26,234	28,795	28,766
	2021	*26,234	30,547	30,538
	2022	*26,234	30,556	30,568
	2023	*26,234	30,775	30,773
Hungary	2020	8,229	7,363	7,292
	2021	8,227	7,294	7,222
	2022	8,227	6,897	6,830
	2023	8,080	7,382	7,307
Ireland	2020	3,741	2,892	2,892
	2021	3,741	3,059	3,057
	2022	3,741	3,035	3,031
	2023	3,741	2,833	2,832
Italy	2020	87,300	60,871	60,231
	2021	87,300	69,343	68,804
	2022	87,250	73,550	73,017
	2023	87,500	70,843	70,333
Lithuania	2020	10,220	8,000	7,905
	2021	8,000	8,195	8,086
	2022	8,000	8,450	8,339
	2023	8,000	9,241	9,158

## Refinery distillation capacity, throughput and output

Thousand metric tons

Country or area	Year	Capacity	Throughput	Output
Netherlands (Kingd. of the)	2020	61,300	55,646	55,401
	2021	61,746	59,523	58,886
	2022	61,880	58,997	58,419
	2023	63,900	61,898	61,048
Norway	2020	*17,955	14,735	14,579
	2021	*17,955	13,846	13,826
	2022	11,272	9,967	9,861
	2023	10,900	10,898	10,881
Poland	2020	27,724	27,417	26,988
	2021	28,978	26,769	26,626
	2022	27,731	28,822	28,591
	2023	30,700	27,109	26,380
Portugal	2020	16,459	11,959	11,908
	2021	11,219	11,221	11,186
	2022	11,272	11,893	11,847
	2023	11,272	10,803	10,739
Republic of Moldova	2020	19	5	7
	2021	*19	2	2
	2022	*19	3	3
	2023	19	3	2
Romania	2020	*14,310	11,737	11,728
	2021	*13,595	11,391	11,118
	2022	*12,915	12,420	12,414
	2023	*11,671	11,163	11,152
Russian Federation	2020	*304,239	274,181	259,777
	2021	*304,239	286,198	270,296
	2022	*304,239	282,962	266,077
	2023	*304,239	259,244	257,757
Serbia	2020	*10,715	3,626	3,607
	2021	*10,715	3,938	3,915
	2022	*10,715	4,431	4,406
	2023	*10,715	4,127	4,100
Slovakia	2020	5,736	6,069	6,045
	2021	*5,736	6,064	6,034
	2022	*5,736	5,878	5,856
	2023	*5,736	5,750	5,732
Slovenia	2020	673	..	..
	2021	673	..	..
	2022	..	..	..
	2023	..	..	..
Spain	2020	*79,083	56,618	55,673
	2021	*79,332	59,047	58,057
	2022	*79,332	63,888	61,997
	2023	*79,352	62,465	61,331
Sweden	2020	*21,796	19,963	19,720
	2021	*21,796	21,549	21,411
	2022	*21,796	21,317	21,084
	2023	*21,796	20,327	20,081
Switzerland	2020	*3,392	2,864	2,881
	2021	*3,392	2,353	2,372
	2022	*3,392	3,088	3,106
	2023	*3,392	2,877	2,870

Table 17

## Refinery distillation capacity, throughput and output

Thousand metric tons

Country or area	Year	Capacity	Throughput	Output
Ukraine	2020	*19,600	4,064	*2,703
	2021	*19,600	4,478	*2,730
	2022	*19,600	*3,647	*2,655
	2023	..	..	..
United Kingdom	2020	*62,300	48,243	47,862
	2021	*62,300	49,070	48,599
	2022	*60,988	54,896	53,959
	2023	60,200	51,112	50,234
<b>Latin America &amp; Carib.</b>	<b>2020</b>	<b>406,419</b>	<b>210,200</b>	<b>204,488</b>
	<b>2021</b>	<b>406,068</b>	<b>230,595</b>	<b>223,008</b>
	<b>2022</b>	<b>397,680</b>	<b>241,945</b>	<b>235,926</b>
	<b>2023</b>	<b>399,182</b>	<b>252,047</b>	<b>246,500</b>
Argentina	2020	31,621	21,223	21,892
	2021	31,621	23,962	22,048
	2022	31,621	24,837	22,825
	2023	31,624	26,345	25,809
Aruba	2020	*11,463	..	..
	2021	*11,463	..	..
	2022	*11,463	..	..
	2023	*11,463	..	..
Bolivia (Plur. State of)	2020	3,341	2,089	1,964
	2021	3,341	2,094	1,980
	2022	3,342	1,931	1,807
	2023	3,342	1,777	1,611
Brazil	2020	123,309	96,861	94,945
	2021	*123,309	96,598	95,718
	2022	114,872	100,663	103,361
	2023	114,872	105,083	107,696
Chile	2020	11,521	8,478	8,507
	2021	11,169	9,711	9,416
	2022	11,169	9,286	8,809
	2023	11,169	10,525	10,525
Colombia	2020	18,883	18,099	15,588
	2021	18,883	21,209	19,754
	2022	18,883	20,204	18,558
	2023	18,883	20,825	19,068
Cuba	2020	*6,135	*2,160	2,052
	2021	*6,135	*1,538	1,461
	2022	*6,135	*1,623	1,600
	2023	*6,135	*1,400	1,323
Curaçao	2020	*16,708	..	..
	2021	*16,708	..	..
	2022	*16,708	..	..
	2023	*16,708	..	..
Dominican Republic	2020	2,486	553	476
	2021	2,486	1,285	1,119
	2022	2,486	1,221	1,151
	2023	2,486	1,277	1,264
Ecuador	2020	8,865	6,410	6,134
	2021	8,865	7,912	7,625
	2022	8,865	8,374	8,103
	2023	8,865	8,201	7,659

## Refinery distillation capacity, throughput and output

Thousand metric tons

Country or area	Year	Capacity	Throughput	Output
Guatemala	2020	*250	95	95
	2021	*250	113	113
	2022	*250	117	117
	2023	*250	100	100
Jamaica	2020	1,747	1,108	1,167
	2021	*1,747	1,149	1,011
	2022	1,796	895	950
	2023	1,796	905	865
Mexico	2020	81,796	33,103	32,360
	2021	81,796	39,218	38,144
	2022	81,796	44,941	43,836
	2023	81,796	45,264	43,194
Nicaragua	2020	998	546	516
	2021	998	708	670
	2022	998	751	712
	2023	998	796	750
Paraguay	2020	370	..	..
	2021	370	..	..
	2022	370	..	..
	2023	370	..	..
Peru	2020	10,468	4,686	4,696
	2021	10,468	6,694	6,597
	2022	10,468	6,029	5,670
	2023	11,967	8,836	8,017
Suriname	2020	748	656	618
	2021	748	733	686
	2022	748	692	685
	2023	748	685	679
Trinidad and Tobago	2020	*8,379	..	..
	2021	*8,379	..	..
	2022	*8,379	..	..
	2023	*8,379	..	..
Uruguay	2020	2,494	1,897	1,845
	2021	2,494	2,096	2,041
	2022	2,494	2,084	2,029
	2023	2,494	1,436	1,389
Venezuela (Bolivar. Rep.)	2020	64,838	12,235	11,633
	2021	64,838	15,574	14,625
	2022	64,838	18,296	15,716
	2023	64,838	18,591	16,549
<b>Northern America</b>	<b>2020</b>	<b>1,029,476</b>	<b>845,002</b>	<b>809,729</b>
	<b>2021</b>	<b>995,212</b>	<b>892,623</b>	<b>847,603</b>
	<b>2022</b>	<b>988,130</b>	<b>935,913</b>	<b>896,288</b>
	<b>2023</b>	<b>1,003,192</b>	<b>930,946</b>	<b>889,570</b>
Canada	2020	98,703	99,871	95,382
	2021	92,070	103,960	98,649
	2022	92,219	110,087	104,391
	2023	93,067	113,005	107,778
United States	2020	930,773	745,130	714,347
	2021	903,142	788,664	748,953
	2022	895,910	825,826	791,898
	2023	910,125	817,941	781,792

Table 17

## Refinery distillation capacity, throughput and output

Thousand metric tons

Country or area	Year	Capacity	Throughput	Output
<b>Oceania</b>	<b>2020</b>	<b>31,022</b>	<b>27,598</b>	<b>27,194</b>
	<b>2021</b>	<b>32,045</b>	<b>23,573</b>	<b>23,007</b>
	<b>2022</b>	<b>23,841</b>	<b>14,877</b>	<b>14,732</b>
	<b>2023</b>	<b>17,103</b>	<b>13,636</b>	<b>13,447</b>
Australia	2020	*22,688	21,495	21,217
	2021	*23,711	17,906	17,476
	2022	*15,508	12,764	12,760
	2023	*15,507	12,186	12,095
New Zealand	2020	6,738	4,638	4,568
	2021	6,738	4,415	4,269
	2022	6,738	1,143	1,104
	2023	0	..	..
Papua New Guinea	2020	*1,596	1,466	1,409
	2021	*1,596	1,253	1,261
	2022	*1,596	969	867
	2023	*1,596	*1,450	*1,352