

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.

Figure 46: Refinery distillation capacity, throughput and output by region, 2022

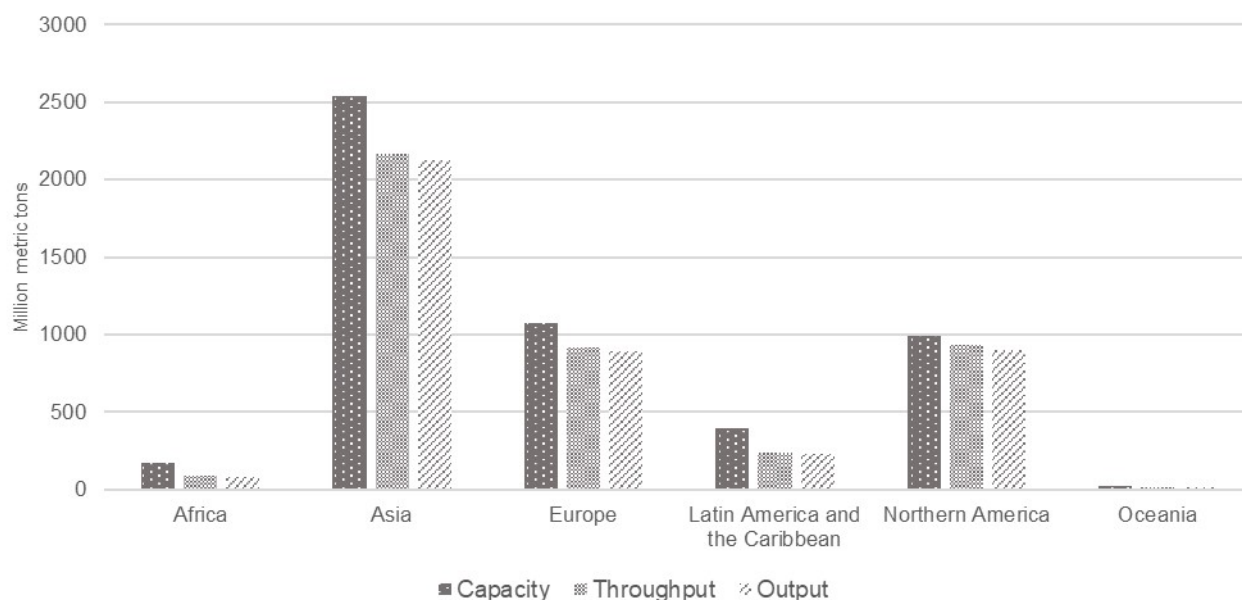


Figure 47: Total refinery distillation capacity by region, 1990-2022

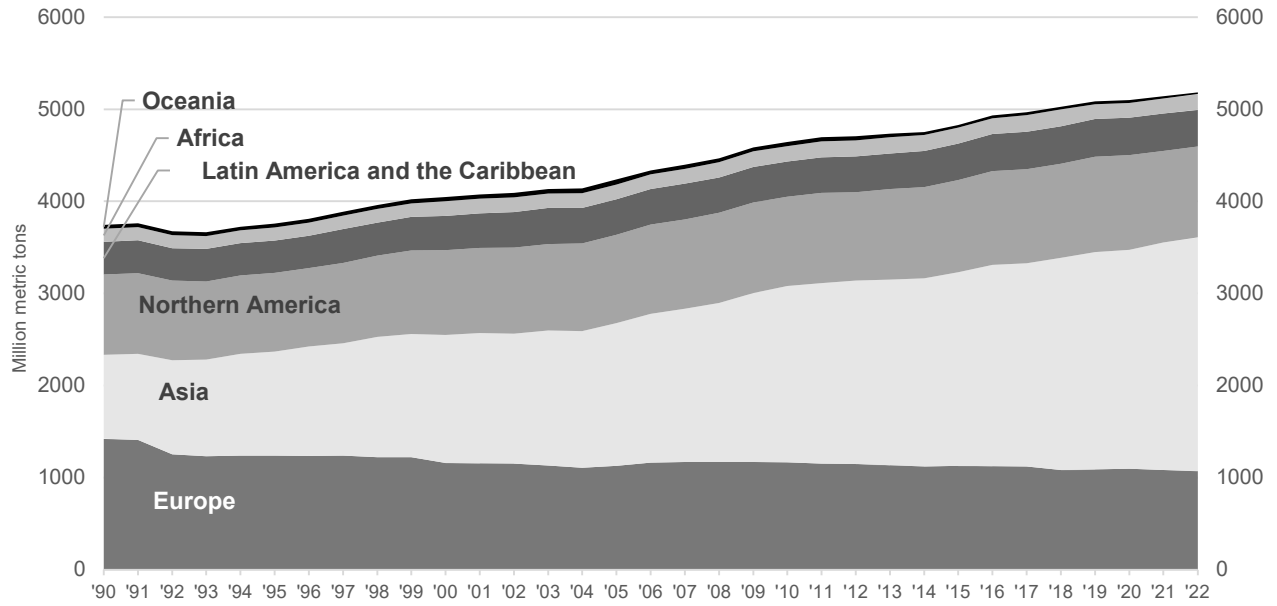


Table 17

Refinery distillation capacity, throughput and output

Thousand metric tons

Country or area	Year	Capacity	Throughput	Output
World	2019	5,085,859	4,413,874	4,303,280
	2020	5,099,874	4,060,944	3,961,460
	2021	5,140,599	4,277,484	4,154,134
	2022	5,184,809	4,357,823	4,246,710
Africa	2019	161,752	98,157	97,879
	2020	158,390	92,613	85,788
	2021	162,150	90,054	84,946
	2022	170,622	87,743	81,239
Algeria	2019	32,858	28,928	28,903
	2020	32,858	29,068	28,444
	2021	33,466	29,805	28,626
	2022	33,766	31,113	30,050
Angola	2019	4,005	2,520	2,563
	2020	4,005	2,286	1,995
	2021	4,005	1,985	1,869
	2022	4,005	2,056	*2,122
Cameroon	2019	2,100	696	616
	2020	0	..	..
	2021	0	..	..
	2022	0	..	..
Chad	2019	*998	700	*680
	2020	*998	*730	*705
	2021	*998	*800	*773
	2022	*998	*800	*776
Congo	2019	1,047	860	735
	2020	1,047	831	713
	2021	1,047	856	738
	2022	1,047	909	784
Côte d'Ivoire	2019	*3,740	3,738	3,711
	2020	3,800	3,427	3,329
	2021	*4,500	4,339	4,111
	2022	*4,500	4,310	4,106
Egypt	2019	39,133	28,489	29,540
	2020	39,133	31,448	27,361
	2021	39,143	31,729	29,059
	2022	39,143	31,275	26,696
Gabon	2019	1,197	595	619
	2020	1,247	831	818
	2021	1,247	957	932
	2022	1,247	964	882
Ghana	2019	2,244	619	624
	2020	2,244	506	496
	2021	2,244	237	285
	2022	*2,244	*41	40
Libya	2019	*18,953	4,106	4,020
	2020	*18,953	2,900	2,839
	2021	*18,953	3,852	3,772
	2022	*18,953	3,708	3,630
Morocco	2019	7,716	..	..
	2020	7,716	..	..
	2021	7,716	..	..
	2022	7,716	..	..

Refinery distillation capacity, throughput and output

Thousand metric tons

Country or area	Year	Capacity	Throughput	Output
Niger	2019	*1,200	875	818
	2020	*1,200	851	791
	2021	*1,200	860	698
	2022	*1,200	779	690
Nigeria	2019	10,743	588	528
	2020	10,471	0	0
	2021	*10,471	230	*211
	2022	*10,471	253	235
Senegal	2019	1,248	1,024	886
	2020	1,248	821	757
	2021	1,248	896	868
	2022	1,500	634	604
Sierra Leone	2019	*499	..	..
	2020	*499	..	..
	2021	*499	..	..
	2022	*499	..	..
South Africa	2019	*25,000	20,037	19,212
	2020	*23,900	13,304	12,434
	2021	25,935	8,719	8,148
	2022	35,053	5,510	5,150
South Sudan	2019	..	..	..
	2020	..	..	..
	2021	407	123	119
	2022	407	164	159
Sudan	2019	*6,074	*3,540	*3,625
	2020	*6,074	4,124	3,653
	2021	*6,074	2,998	3,091
	2022	*6,074	*3,766	3,869
Tunisia	2019	1,800	142	141
	2020	*1,800	1,114	1,108
	2021	*1,800	1,610	1,593
	2022	*1,800	1,460	1,445
Zambia	2019	1,197	700	658
	2020	*1,197	372	344
	2021	*1,197	57	54
	2022	..	..	0
Asia	2019	2,360,010	2,115,370	2,065,312
	2020	2,376,543	2,019,439	1,986,069
	2021	2,469,824	2,152,267	2,108,222
	2022	2,538,448	2,167,342	2,128,517
Afghanistan	2019	*185	*119	*112
	2020	*185	*51	*46
	2021	*185	*55	*50
	2022	*185	*55	*50
Azerbaijan	2019	*5,985	6,162	6,045
	2020	*5,985	5,862	5,795
	2021	*7,500	6,595	6,572
	2022	7,500	6,242	6,127
Bahrain	2019	13,314	13,149	13,386
	2020	13,314	11,093	11,200
	2021	13,314	11,176	11,517
	2022	13,314	12,623	12,628

Table 17

Refinery distillation capacity, throughput and output

Thousand metric tons

Country or area	Year	Capacity	Throughput	Output
Bangladesh	2019	1,920	1,569	1,408
	2020	1,920	1,223	1,058
	2021	1,920	1,880	1,777
	2022	1,970	1,591	1,582
Brunei Darussalam	2019	*8,734	1,484	1,330
	2020	*8,734	8,441	8,223
	2021	*8,734	8,282	7,972
	2022	*8,734	8,643	8,300
China	2019	*860,000	766,235	763,910
	2020	*860,000	812,744	808,477
	2021	*910,000	848,577	842,814
	2022	*981,700	823,397	815,100
Georgia	2019	*5,440	38	37
	2020	*5,440	37	37
	2021	*5,440	50	50
	2022	*5,440	43	43
India	2019	249,866	*263,999	263,195
	2020	249,866	*230,431	231,656
	2021	251,216	*250,656	256,275
	2022	253,916	*270,343	269,158
Indonesia	2019	58,309	*48,174	41,413
	2020	59,202	48,124	40,752
	2021	*59,202	47,831	40,674
	2022	*59,202	46,909	39,603
Iran (Islamic Rep. of)	2019	109,776	103,856	100,133
	2020	109,902	97,456	95,861
	2021	109,825	106,588	100,865
	2022	111,544	105,021	104,248
Iraq	2019	41,087	31,956	29,619
	2020	55,700	27,182	25,664
	2021	55,661	31,307	29,551
	2022	63,127	35,043	32,775
Israel	2019	*15,225	15,268	15,268
	2020	*15,225	12,832	12,832
	2021	*15,225	13,497	13,411
	2022	*15,225	14,239	14,202
Japan	2019	172,459	151,812	147,427
	2020	172,459	123,464	121,293
	2021	171,721	130,281	128,925
	2022	*157,568	137,295	135,661
Jordan	2019	*4,509	2,403	2,174
	2020	*4,509	1,820	1,780
	2021	*4,509	1,771	1,777
	2022	*4,509	1,599	1,565
Kazakhstan	2019	21,446	17,070	15,910
	2020	*21,446	15,801	14,925
	2021	21,446	17,591	17,257
	2022	21,446	19,008	19,090
Korea, Dem.Ppl's.Rep.	2019	3,494	532	515
	2020	*3,494	532	515
	2021	*3,494	532	515
	2022	*3,494	532	515

Refinery distillation capacity, throughput and output

Thousand metric tons

Country or area	Year	Capacity	Throughput	Output
Korea, Republic of	2019	159,762	163,247	157,811
	2020	159,762	152,301	147,105
	2021	159,762	153,603	147,548
	2022	159,762	163,704	157,730
Kuwait	2019	39,900	31,400	32,155
	2020	36,835	28,919	28,487
	2021	39,891	34,366	34,708
	2022	50,113	40,697	38,872
Kyrgyzstan	2019	800	322	318
	2020	800	180	162
	2021	800	283	269
	2022	*800	298	303
Malaysia	2019	26,862	24,427	21,227
	2020	26,862	22,266	21,710
	2021	39,866	23,123	20,591
	2022	39,866	20,796	20,260
Myanmar	2019	*2,545	213	207
	2020	2,545	238	237
	2021	2,545	183	185
	2022	2,545	190	194
Oman	2019	*15,112	13,028	12,031
	2020	*15,112	11,309	10,528
	2021	*15,162	12,741	11,511
	2022	*15,162	13,915	12,760
Other Asia	2019	56,898	51,734	51,450
	2020	54,946	42,284	43,288
	2021	54,946	44,738	46,493
	2022	54,946	47,405	47,803
Pakistan	2019	19,370	*10,573	10,044
	2020	20,400	11,934	11,566
	2021	20,242	11,993	11,401
	2022	20,337	*10,498	9,873
Philippines	2019	*13,766	8,129	7,735
	2020	*8,978	4,729	4,525
	2021	*8,978	3,933	3,743
	2022	*8,978	5,987	5,661
Qatar	2019	21,446	16,306	16,201
	2020	21,446	16,829	16,715
	2021	21,446	17,276	17,159
	2022	21,446	17,365	17,250
Saudi Arabia	2019	144,404	142,782	129,546
	2020	146,350	116,776	112,331
	2021	165,895	152,448	140,201
	2022	164,100	139,720	137,270
Singapore	2019	67,057	50,147	49,843
	2020	67,057	42,758	41,391
	2021	72,818	43,143	41,906
	2022	64,938	47,931	46,469
Sri Lanka	2019	2,494	1,865	1,825
	2020	2,494	1,715	1,669
	2021	*2,494	1,272	1,219
	2022	*2,494	530	483

Table 17

Refinery distillation capacity, throughput and output

Thousand metric tons

Country or area	Year	Capacity	Throughput	Output
Syrian Arab Republic	2019	11,963	6,158	6,086
	2020	11,963	6,421	6,345
	2021	11,975	6,209	6,135
	2022	11,975	6,209	6,135
Tajikistan	2019	150	33	30
	2020	150	35	16
	2021	150	28	22
	2022	150	25	13
Thailand	2019	61,571	57,861	58,966
	2020	62,070	56,597	58,138
	2021	62,070	*55,541	57,011
	2022	*62,070	52,791	54,037
Türkiye	2019	*44,067	37,430	37,005
	2020	*44,067	35,657	35,315
	2021	*44,067	38,095	37,795
	2022	*44,067	41,165	40,821
Turkmenistan	2019	13,017	7,863	7,549
	2020	*13,017	7,362	7,067
	2021	*13,017	7,419	7,122
	2022	*13,017	7,680	7,373
United Arab Emirates	2019	56,210	48,511	45,284
	2020	63,441	43,677	39,931
	2021	63,441	48,952	44,741
	2022	61,182	46,305	44,450
Uzbekistan	2019	5,420	3,808	3,611
	2020	5,420	3,616	3,359
	2021	5,420	*3,854	3,488
	2022	*5,420	*3,907	3,785
Viet Nam	2019	*16,484	13,938	12,815
	2020	*16,484	15,508	14,888
	2021	*16,484	15,317	13,938
	2022	*17,242	16,549	15,286
Yemen	2019	8,963	1,769	1,690
	2020	8,963	1,235	1,180
	2021	*8,963	1,082	1,034
	2022	*8,963	1,091	1,043
Europe	2019	1,088,718	961,187	947,072
	2020	1,097,000	866,505	849,668
	2021	1,083,504	894,746	874,469
	2022	1,069,878	916,085	893,291
Albania	2019	1,494	335	323
	2020	1,494	134	131
	2021	1,494	165	158
	2022	1,494	121	117
Austria	2019	9,576	9,642	9,530
	2020	9,576	8,604	8,438
	2021	9,576	8,522	8,366
	2022	9,576	6,286	6,161
Belarus	2019	27,082	17,854	17,607
	2020	*24,000	16,296	16,083
	2021	*22,444	16,296	16,083
	2022	*22,444	14,639	14,423

Refinery distillation capacity, throughput and output

Thousand metric tons

Country or area	Year	Capacity	Throughput	Output
Belgium	2019	38,703	35,478	35,152
	2020	38,703	27,659	27,511
	2021	33,367	30,916	30,722
	2022	31,915	28,933	28,663
Bosnia and Herzegovina	2019	*11,970	83	74
	2020	*11,970	13	13
	2021	*11,970	14	13
	2022	*11,970	16	14
Bulgaria	2019	*9,726	7,347	6,968
	2020	*9,726	5,315	5,061
	2021	*9,776	4,634	4,437
	2022	*9,776	7,617	7,283
Croatia	2019	8,300	2,933	2,908
	2020	8,300	2,615	2,560
	2021	8,300	2,455	2,428
	2022	8,300	2,298	2,248
Czechia	2019	*9,676	8,161	8,089
	2020	8,728	6,361	6,341
	2021	8,728	7,425	7,399
	2022	8,728	7,752	7,717
Denmark	2019	*9,027	8,653	8,635
	2020	*8,900	8,193	8,176
	2021	*8,778	8,287	8,260
	2022	*8,875	8,187	8,075
Finland	2019	13,017	14,927	14,689
	2020	13,017	13,681	13,549
	2021	12,000	10,212	9,783
	2022	12,000	12,050	11,920
France	2019	70,124	51,216	50,842
	2020	70,124	37,187	36,911
	2021	70,124	36,561	36,175
	2022	70,124	42,671	42,224
Germany	2019	*104,400	99,884	97,682
	2020	*104,400	95,400	93,170
	2021	*104,400	95,682	93,398
	2022	*104,400	100,913	98,658
Greece	2019	*26,234	30,138	30,133
	2020	*26,234	28,795	28,766
	2021	*26,234	30,547	30,538
	2022	*26,234	30,556	30,568
Hungary	2019	8,229	7,476	7,398
	2020	8,229	7,363	7,292
	2021	8,227	7,294	7,222
	2022	8,227	6,897	6,830
Ireland	2019	3,741	2,767	2,742
	2020	3,741	2,892	2,892
	2021	3,741	3,058	3,057
	2022	3,741	3,035	3,033
Italy	2019	87,300	74,242	73,437
	2020	87,300	60,871	60,231
	2021	87,300	69,343	68,804
	2022	87,250	73,550	73,017

Table 17

Refinery distillation capacity, throughput and output

Thousand metric tons

Country or area	Year	Capacity	Throughput	Output
Lithuania	2019	10,220	9,720	9,605
	2020	10,220	8,000	7,905
	2021	8,000	8,195	8,086
	2022	8,000	8,450	8,339
Netherlands (Kingd. of the)	2019	*64,374	62,099	61,874
	2020	61,300	55,646	55,361
	2021	61,746	59,523	58,948
	2022	61,880	58,997	58,433
North Macedonia	2019	2,494	..	..
	2020	2,494	..	..
	2021	*2,494	..	..
	2022	..	..	..
Norway	2019	*17,955	16,094	15,865
	2020	*17,955	14,735	14,579
	2021	*17,955	13,846	13,826
	2022	11,272	9,967	9,861
Poland	2019	29,250	28,983	28,457
	2020	27,724	27,417	26,988
	2021	28,978	26,769	26,626
	2022	27,731	28,822	28,591
Portugal	2019	16,459	12,813	12,762
	2020	16,459	11,959	11,908
	2021	11,219	11,221	11,186
	2022	11,272	11,893	11,847
Republic of Moldova	2019	19	6	6
	2020	19	5	7
	2021	*19	2	2
	2022	*19	3	3
Romania	2019	*18,853	13,337	13,327
	2020	*18,853	11,737	11,728
	2021	*18,853	11,391	11,118
	2022	*18,853	12,420	12,414
Russian Federation	2019	*287,200	286,916	282,261
	2020	*304,239	274,181	265,576
	2021	*304,239	286,198	274,958
	2022	*304,239	282,962	269,790
Serbia	2019	*10,715	3,514	3,495
	2020	*10,715	3,626	3,607
	2021	*10,715	3,938	3,915
	2022	*10,715	4,431	4,406
Slovakia	2019	*5,736	5,602	5,580
	2020	5,736	6,069	6,045
	2021	*5,736	6,064	6,034
	2022	*5,736	5,878	5,856
Slovenia	2019	673	..	..
	2020	673	..	..
	2021	673	..	..
	2022	..	..	..
Spain	2019	*79,083	66,539	65,221
	2020	*79,083	56,618	55,673
	2021	*79,332	59,047	58,057
	2022	*79,332	63,792	61,997

Refinery distillation capacity, throughput and output

Thousand metric tons

Country or area	Year	Capacity	Throughput	Output
Sweden	2019	*21,796	18,933	18,078
	2020	*21,796	19,963	19,720
	2021	*21,796	21,549	21,411
	2022	*21,796	21,317	21,084
Switzerland	2019	*3,392	2,781	2,763
	2020	*3,392	2,864	2,881
	2021	*3,392	2,353	2,372
	2022	*3,392	3,088	3,106
Ukraine	2019	*19,600	3,707	*2,843
	2020	*19,600	4,064	*2,703
	2021	*19,600	4,441	*2,926
	2022	*19,600	*3,647	*2,655
United Kingdom	2019	*62,300	59,007	58,726
	2020	*62,300	48,243	47,862
	2021	*62,300	48,799	48,161
	2022	*60,988	54,897	53,959
Latin America & Carib.	2019	409,172	232,186	223,468
	2020	406,419	209,787	203,012
	2021	406,068	224,221	215,887
	2022	397,680	235,434	232,191
Argentina	2019	31,621	24,138	23,086
	2020	31,621	21,223	21,892
	2021	31,621	23,962	22,048
	2022	31,621	24,837	22,825
Aruba	2019	*11,463	..	..
	2020	*11,463	..	..
	2021	*11,463	..	..
	2022	*11,463	..	..
Bolivia (Plur. State of)	2019	3,394	2,223	2,020
	2020	3,341	2,089	1,964
	2021	3,341	2,094	1,980
	2022	3,342	1,931	1,807
Brazil	2019	123,396	91,799	91,193
	2020	123,309	96,861	94,945
	2021	*123,309	96,598	95,718
	2022	114,872	100,663	103,361
Chile	2019	11,521	10,978	10,245
	2020	11,521	8,478	8,507
	2021	11,169	9,711	9,416
	2022	11,169	9,241	8,423
Colombia	2019	21,496	19,840	19,254
	2020	18,883	18,099	15,588
	2021	18,883	21,209	18,985
	2022	18,883	20,204	20,008
Cuba	2019	*6,135	*1,791	1,701
	2020	*6,135	*2,160	2,052
	2021	*6,135	*1,538	1,461
	2022	*6,135	*1,409	1,396
Curaçao	2019	*16,708	0	0
	2020	*16,708	..	..
	2021	*16,708	..	..
	2022	*16,708	..	..

Table 17

Refinery distillation capacity, throughput and output

Thousand metric tons

Country or area	Year	Capacity	Throughput	Output
Dominican Republic	2019	2,486	1,283	1,141
	2020	2,486	527	479
	2021	2,486	1,248	1,118
	2022	2,486	1,283	1,150
Ecuador	2019	8,865	7,794	7,158
	2020	8,865	6,410	5,949
	2021	8,865	7,912	7,404
	2022	8,865	8,374	7,835
Guatemala	2019	*250	146	146
	2020	*250	110	110
	2021	*250	132	132
	2022	*250	136	136
Jamaica	2019	1,747	1,339	1,291
	2020	1,747	*1,200	1,167
	2021	*1,747	1,149	1,011
	2022	1,796	986	946
Mexico	2019	81,796	33,668	32,418
	2020	81,796	33,103	32,360
	2021	81,796	39,218	38,144
	2022	81,796	44,941	43,836
Nicaragua	2019	998	547	518
	2020	998	546	516
	2021	998	708	670
	2022	998	755	712
Paraguay	2019	370	..	..
	2020	370	..	..
	2021	370	..	..
	2022	370	..	..
Peru	2019	10,468	8,869	7,581
	2020	10,468	4,678	4,748
	2021	10,468	6,233	5,876
	2022	*10,468	6,231	5,768
Suriname	2019	748	690	637
	2020	748	656	618
	2021	748	733	686
	2022	748	692	685
Trinidad and Tobago	2019	*8,379	..	..
	2020	*8,379	..	..
	2021	*8,379	..	..
	2022	*8,379	..	..
Uruguay	2019	2,494	2,054	2,001
	2020	2,494	1,897	1,856
	2021	2,494	2,096	2,051
	2022	2,494	2,084	2,039
Venezuela (Bolivar. Rep.)	2019	64,838	25,026	23,076
	2020	64,838	11,748	10,262
	2021	64,838	9,680	9,187
	2022	64,838	11,666	11,264
Northern America	2019	1,035,189	975,699	938,764
	2020	1,029,476	845,002	809,729
	2021	995,212	892,623	847,603
	2022	988,130	935,913	896,288

Refinery distillation capacity, throughput and output

Thousand metric tons

Country or area	Year	Capacity	Throughput	Output
Canada	2019	97,134	111,378	106,238
	2020	98,703	99,871	95,382
	2021	92,070	103,960	98,649
	2022	92,219	110,087	104,391
United States	2019	938,055	864,321	832,525
	2020	930,773	745,130	714,347
	2021	903,142	788,664	748,953
	2022	895,910	825,826	791,898
Oceania	2019	31,017	31,276	30,786
	2020	32,045	27,598	27,194
	2021	23,841	23,573	23,007
	2022	20,052	15,307	15,183
Australia	2019	22,688	24,000	23,680
	2020	23,711	21,495	21,217
	2021	15,508	17,906	17,476
	2022	11,718	12,764	12,760
New Zealand	2019	6,733	5,956	5,898
	2020	6,738	4,638	4,568
	2021	6,738	4,415	4,269
	2022	6,738	1,143	1,104
Papua New Guinea	2019	*1,596	1,320	1,208
	2020	*1,596	1,466	1,409
	2021	*1,596	1,253	1,261
	2022	*1,596	*1,400	*1,319