

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, 2021

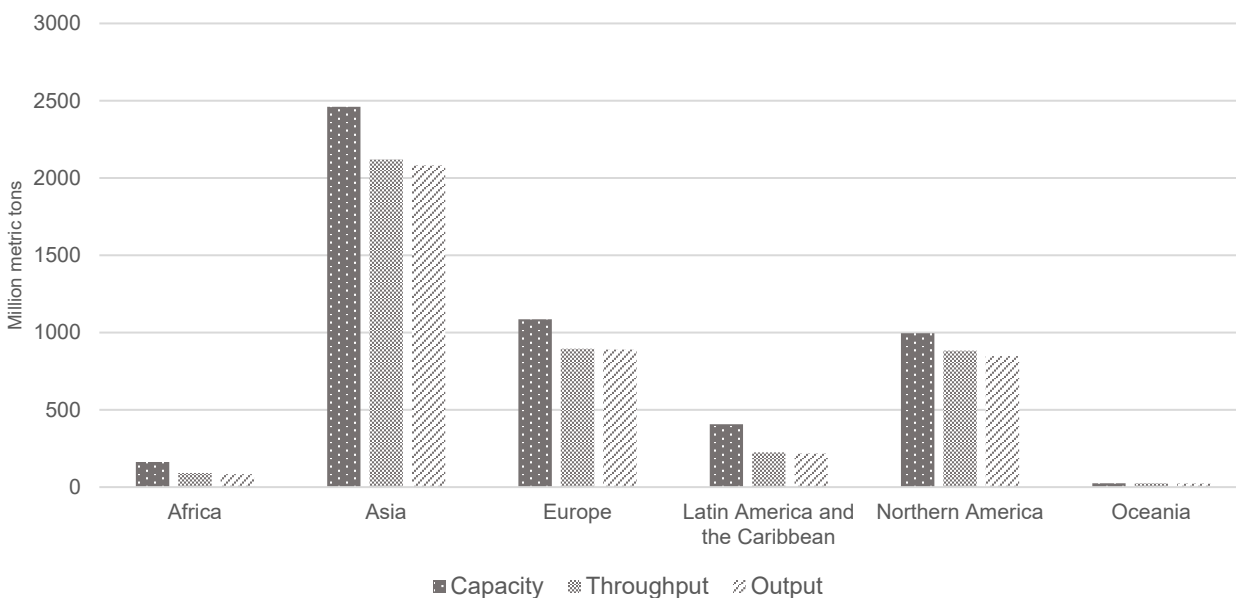


Figure 47: Total refinery distillation capacity by region, 1990-2021

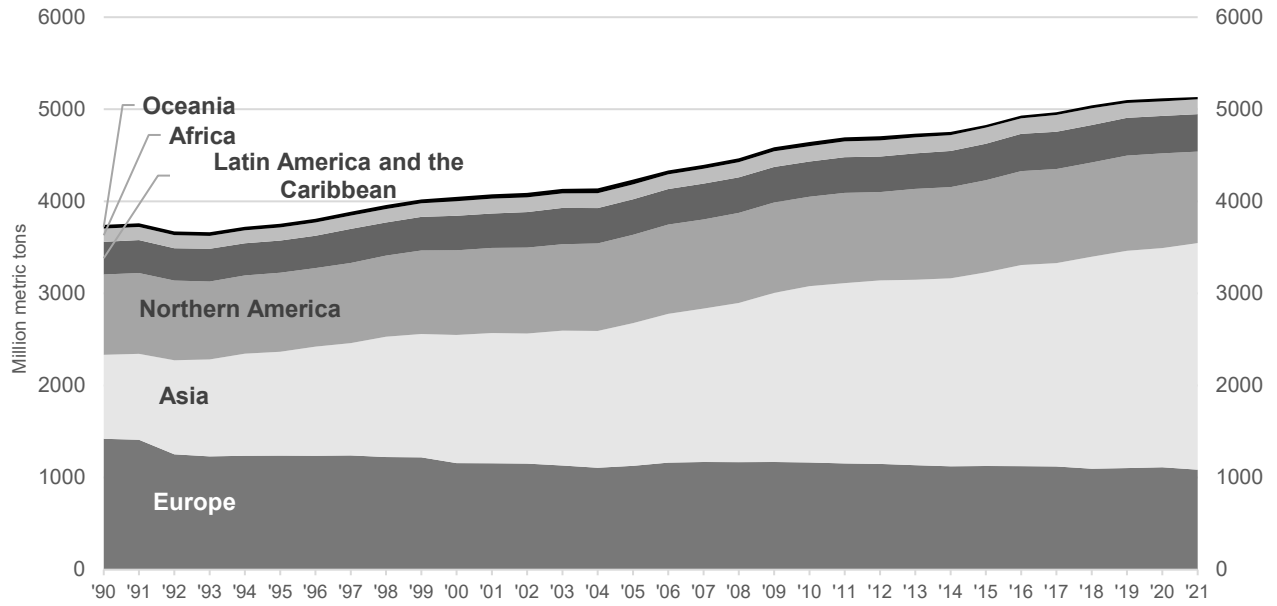


Table 17

Refinery distillation capacity, throughput and output

Thousand metric tons

Country or area	Year	Capacity	Throughput	Output
World	2018	5,042,135	4,390,624	4,312,782
	2019	5,099,459	4,384,918	4,303,838
	2020	5,118,262	4,036,844	3,964,537
	2021	5,135,282	4,235,377	4,141,884
Africa	2018	182,182	103,565	99,299
	2019	161,752	99,842	97,529
	2020	158,390	92,004	87,665
	2021	162,150	90,768	82,758
Algeria	2018	32,858	30,784	29,933
	2019	32,858	28,628	28,256
	2020	32,858	28,651	27,815
	2021	33,466	29,286	27,985
Angola	2018	4,005	1,852	1,897
	2019	4,005	2,520	2,563
	2020	4,005	2,286	1,995
	2021	4,005	1,985	1,859
Cameroon	2018	2,100	1,346	1,191
	2019	2,100	696	616
	2020	0	..	..
	2021	0	..	..
Chad	2018	*998	700	*656
	2019	*998	700	*680
	2020	*998	*730	*705
	2021	*998	*800	*773
Congo	2018	1,047	851	725
	2019	1,047	860	735
	2020	1,047	831	713
	2021	1,047	856	738
Côte d'Ivoire	2018	*3,740	3,433	3,366
	2019	*3,740	3,738	3,711
	2020	3,800	3,427	3,329
	2021	*4,500	4,339	4,111
Egypt	2018	38,040	26,328	26,083
	2019	39,133	28,489	28,310
	2020	39,133	31,448	29,692
	2021	39,143	31,729	27,332
Gabon	2018	*1,197	699	671
	2019	1,197	595	619
	2020	1,247	831	818
	2021	1,247	957	932
Ghana	2018	*2,244	405	310
	2019	2,244	619	624
	2020	2,244	506	496
	2021	2,244	237	285
Libya	2018	18,953	5,647	5,598
	2019	*18,953	4,106	4,020
	2020	*18,953	2,900	2,839
	2021	*18,953	3,852	3,772
Morocco	2018	7,725	..	..
	2019	7,716	..	..
	2020	7,716	..	..
	2021	7,716	..	..

Refinery distillation capacity, throughput and output

Thousand metric tons

Country or area	Year	Capacity	Throughput	Output
Niger	2018	*1,200	818	763
	2019	*1,200	755	634
	2020	*1,200	851	767
	2021	*1,200	*878	722
Nigeria	2018	*22,195	2,744	2,389
	2019	10,743	588	528
	2020	10,471	0	0
	2021	*10,471	138	123
Senegal	2018	1,248	1,051	981
	2019	1,248	1,024	886
	2020	1,248	821	757
	2021	1,248	896	868
Sierra Leone	2018	*499	..	..
	2019	*499	..	..
	2020	*499	..	..
	2021	*499	..	..
South Africa	2018	*35,062	21,704	19,125
	2019	*25,000	22,141	21,120
	2020	*23,900	13,112	12,803
	2021	25,935	9,605	8,976
South Sudan	2018	..	..	..
	2019	..	..	..
	2020	..	..	..
	2021	407	113	110
Sudan	2018	6,074	3,495	3,943
	2019	*6,074	*3,540	*3,427
	2020	*6,074	4,124	3,483
	2021	*6,074	*3,429	*2,526
Tunisia	2018	1,800	1,062	1,074
	2019	1,800	142	141
	2020	*1,800	1,114	1,108
	2021	*1,800	1,610	1,593
Zambia	2018	1,197	647	595
	2019	1,197	700	658
	2020	*1,197	372	344
	2021	*1,197	57	54
Asia	2018	2,301,869	2,063,300	2,031,119
2019	2,360,010	2,092,386	2,049,689	
2020	2,381,331	2,004,148	1,971,785	
2021	2,460,093	2,120,107	2,082,119	
Afghanistan	2018	*185	*185	*176
	2019	*185	*119	*112
	2020	*185	*51	*46
	2021	*185	*55	*50
Azerbaijan	2018	*5,985	6,059	5,963
	2019	*5,985	6,162	6,045
	2020	*5,985	5,862	5,795
	2021	*5,985	6,595	6,572
Bahrain	2018	12,968	12,940	13,227
	2019	13,314	13,149	13,386
	2020	13,314	11,093	11,200
	2021	13,314	11,176	11,517

Table 17

Refinery distillation capacity, throughput and output

Thousand metric tons

Country or area	Year	Capacity	Throughput	Output
Bangladesh	2018	1,920	1,439	1,249
	2019	1,920	1,576	1,408
	2020	1,920	1,229	1,058
	2021	*1,920	1,757	1,545
Brunei Darussalam	2018	900	358	320
	2019	*8,734	1,879	1,330
	2020	*8,734	8,441	8,137
	2021	*8,734	8,282	7,889
China	2018	*835,611	713,743	711,792
	2019	*860,000	766,235	763,910
	2020	*860,000	812,744	808,477
	2021	*910,000	847,147	842,814
Georgia	2018	*5,440	24	22
	2019	*5,440	38	37
	2020	*5,440	37	37
	2021	*5,440	50	50
India	2018	249,366	267,061	273,711
	2019	249,866	*263,999	263,195
	2020	249,866	*230,431	231,656
	2021	251,216	*250,656	256,275
Indonesia	2018	58,210	42,375	38,887
	2019	58,309	*48,174	41,413
	2020	59,202	48,124	40,752
	2021	*59,202	47,831	40,672
Iran (Islamic Rep. of)	2018	104,314	88,521	87,365
	2019	109,776	89,575	87,054
	2020	109,902	85,736	84,376
	2021	109,825	88,911	87,887
Iraq	2018	40,648	30,129	28,267
	2019	41,087	31,956	29,738
	2020	55,700	27,182	25,820
	2021	55,661	25,861	25,367
Israel	2018	15,225	14,782	14,782
	2019	*15,225	15,268	15,268
	2020	*15,225	12,832	12,832
	2021	*15,225	13,497	13,411
Japan	2018	175,511	154,243	150,956
	2019	172,459	150,937	147,427
	2020	172,459	122,544	121,293
	2021	171,721	130,272	128,964
Jordan	2018	*4,509	2,356	2,264
	2019	*4,509	2,403	2,174
	2020	*4,509	1,820	1,780
	2021	*4,509	*1,960	1,911
Kazakhstan	2018	16,958	16,257	14,617
	2019	21,446	17,070	15,910
	2020	*21,446	15,801	14,925
	2021	21,446	17,591	17,257
Korea, Dem.Ppl's.Rep.	2018	3,494	532	515
	2019	3,494	532	515
	2020	*3,494	532	515
	2021	*3,494	532	515

Refinery distillation capacity, throughput and output

Thousand metric tons

Country or area	Year	Capacity	Throughput	Output
Korea, Republic of	2018	159,762	165,075	158,099
	2019	159,762	163,247	157,811
	2020	159,762	152,301	147,105
	2021	159,762	153,603	147,548
Kuwait	2018	36,708	35,101	32,450
	2019	39,900	31,400	31,327
	2020	36,835	28,919	27,479
	2021	39,891	34,366	33,571
Kyrgyzstan	2018	*800	549	544
	2019	800	322	318
	2020	800	180	162
	2021	800	283	269
Malaysia	2018	26,862	24,727	24,093
	2019	26,862	24,427	21,227
	2020	26,862	22,266	21,710
	2021	26,862	23,123	20,591
Myanmar	2018	2,545	258	247
	2019	*2,545	213	207
	2020	2,545	238	237
	2021	2,545	183	185
Oman	2018	15,112	12,910	12,141
	2019	*15,112	13,028	12,031
	2020	*15,112	11,309	10,451
	2021	*15,162	12,741	11,511
Other Asia	2018	56,898	51,678	51,947
	2019	56,898	51,734	51,450
	2020	54,946	42,284	43,288
	2021	54,946	44,738	46,493
Pakistan	2018	19,370	13,856	12,617
	2019	19,370	*10,573	10,044
	2020	20,400	11,934	11,566
	2021	20,242	11,993	11,401
Philippines	2018	*13,766	11,743	11,110
	2019	*13,766	8,129	7,735
	2020	*13,766	4,729	4,525
	2021	*13,766	3,933	3,743
Qatar	2018	21,446	15,947	15,867
	2019	21,446	16,239	16,047
	2020	21,446	14,863	14,572
	2021	21,446	17,292	17,176
Saudi Arabia	2018	140,960	149,099	145,748
	2019	144,404	134,764	129,546
	2020	146,350	115,951	112,331
	2021	165,895	149,511	138,210
Singapore	2018	67,057	53,541	50,846
	2019	67,057	50,147	49,843
	2020	67,057	42,758	41,391
	2021	72,818	43,143	41,906
Sri Lanka	2018	2,494	1,703	1,629
	2019	2,494	1,865	1,825
	2020	2,494	1,715	1,669
	2021	*2,494	1,272	1,219

Table 17

Refinery distillation capacity, throughput and output

Thousand metric tons

Country or area	Year	Capacity	Throughput	Output
Syrian Arab Republic	2018	11,963	6,859	6,779
	2019	11,963	6,158	6,087
	2020	11,963	6,421	6,346
	2021	11,975	6,209	6,136
Tajikistan	2018	*150	45	46
	2019	150	33	30
	2020	150	35	16
	2021	150	28	22
Thailand	2018	61,571	62,698	61,340
	2019	61,571	56,796	56,403
	2020	62,070	55,643	57,279
	2021	62,070	49,570	49,240
Türkiye	2018	*33,067	28,498	28,227
	2019	*44,067	37,430	37,005
	2020	*44,067	35,657	35,315
	2021	*44,067	38,095	37,795
Turkmenistan	2018	13,017	8,921	8,564
	2019	13,017	8,783	8,431
	2020	*13,017	8,493	8,153
	2021	*13,017	8,451	8,113
United Arab Emirates	2018	56,210	51,926	48,737
	2019	56,210	48,511	45,284
	2020	63,441	43,633	40,054
	2021	63,441	49,145	45,666
Uzbekistan	2018	5,420	4,207	3,847
	2019	5,420	3,808	3,611
	2020	5,420	3,616	3,368
	2021	5,420	*3,854	3,654
Viet Nam	2018	16,484	11,047	10,301
	2019	*16,484	13,938	12,815
	2020	*16,484	15,508	14,888
	2021	*16,484	15,317	13,938
Yemen	2018	8,963	1,910	1,826
	2019	8,963	1,769	1,690
	2020	8,963	1,235	1,180
	2021	*8,963	1,082	1,034
Europe	2018	1,096,597	974,157	966,159
	2019	1,102,318	961,128	962,477
	2020	1,110,600	866,507	865,067
	2021	1,087,918	894,665	889,742
Albania	2018	1,494	298	291
	2019	1,494	335	323
	2020	1,494	134	131
	2021	494	165	158
Austria	2018	9,576	9,281	9,165
	2019	9,576	9,642	9,530
	2020	9,576	8,604	8,438
	2021	9,576	8,522	8,328
Belarus	2018	27,082	19,026	18,752
	2019	27,082	17,854	17,607
	2020	*24,000	16,296	16,083
	2021	*22,444	16,296	16,083

Refinery distillation capacity, throughput and output

Thousand metric tons

Country or area	Year	Capacity	Throughput	Output
Belgium	2018	38,703	34,344	34,070
	2019	38,703	35,478	35,152
	2020	38,703	27,659	27,511
	2021	33,367	30,916	30,722
Bosnia and Herzegovina	2018	*11,970	697	704
	2019	*11,970	83	74
	2020	*11,970	13	13
	2021	*11,970	14	13
Bulgaria	2018	*9,726	6,486	6,189
	2019	*9,726	7,347	6,968
	2020	*9,726	5,315	5,061
	2021	*9,776	4,634	4,437
Croatia	2018	9,000	3,979	3,929
	2019	8,300	2,933	2,908
	2020	8,300	2,615	2,560
	2021	8,300	2,455	2,428
Czechia	2018	*9,676	7,864	7,848
	2019	*9,676	8,161	8,089
	2020	8,728	6,361	6,341
	2021	8,728	7,425	7,399
Denmark	2018	*9,027	9,114	9,095
	2019	*9,027	8,653	8,635
	2020	*8,900	8,193	8,176
	2021	*8,778	8,204	8,177
Finland	2018	13,017	14,877	14,788
	2019	13,017	14,927	14,714
	2020	13,017	13,681	13,593
	2021	10,500	10,212	9,872
France	2018	70,124	56,115	55,639
	2019	70,124	51,216	50,842
	2020	70,124	37,187	36,911
	2021	70,124	36,561	36,175
Germany	2018	*104,400	99,453	97,088
	2019	*104,400	99,884	97,682
	2020	*104,400	95,400	93,170
	2021	*104,400	95,682	93,398
Greece	2018	*26,234	32,785	32,771
	2019	*26,234	30,138	30,133
	2020	*26,234	28,795	28,766
	2021	*26,234	30,547	30,538
Hungary	2018	8,229	7,737	7,658
	2019	8,229	7,476	7,398
	2020	8,229	7,363	7,292
	2021	8,227	7,294	7,222
Ireland	2018	3,741	3,061	3,057
	2019	3,741	2,767	2,742
	2020	3,741	2,892	2,892
	2021	3,741	3,058	3,057
Italy	2018	100,904	72,400	71,741
	2019	100,900	74,242	73,437
	2020	100,900	60,871	60,231
	2021	*100,900	69,343	68,804

Table 17

Refinery distillation capacity, throughput and output

Thousand metric tons

Country or area	Year	Capacity	Throughput	Output
Lithuania	2018	10,220	9,891	9,782
	2019	10,220	9,720	9,605
	2020	10,220	8,000	7,905
	2021	8,000	8,195	8,086
Netherlands (Kingd. of the)	2018	65,835	61,097	60,920
	2019	*64,374	62,099	61,855
	2020	61,300	55,646	55,352
	2021	61,746	59,524	58,943
North Macedonia	2018	2,494	..	..
	2019	2,494	..	..
	2020	2,494	..	..
	2021	*2,494	..	..
Norway	2018	*17,955	17,723	17,698
	2019	*17,955	16,094	15,865
	2020	*17,955	14,735	14,579
	2021	*11,269	13,846	13,826
Poland	2018	29,250	28,858	28,226
	2019	29,250	28,983	28,457
	2020	27,724	27,417	26,988
	2021	28,978	26,769	26,626
Portugal	2018	16,459	14,115	14,063
	2019	16,459	12,813	12,762
	2020	16,459	11,959	11,908
	2021	11,219	11,221	11,186
Republic of Moldova	2018	19	10	10
	2019	19	6	6
	2020	19	5	7
	2021	*19	2	2
Romania	2018	*18,853	12,595	12,584
	2019	*18,853	13,337	13,327
	2020	*18,853	11,737	11,728
	2021	*18,853	11,391	11,118
Russian Federation	2018	*287,200	286,135	285,776
	2019	*287,200	286,916	297,661
	2020	*304,239	274,181	280,926
	2021	*304,239	286,198	290,268
Serbia	2018	*10,715	3,880	3,858
	2019	*10,715	3,514	3,495
	2020	*10,715	3,626	3,607
	2021	*10,715	3,938	3,915
Slovakia	2018	*5,736	5,950	5,930
	2019	*5,736	5,602	5,580
	2020	5,736	6,069	6,045
	2021	*5,736	6,064	6,034
Slovenia	2018	673	..	..
	2019	673	..	..
	2020	673	..	..
	2021	673	..	..
Spain	2018	71,197	68,717	67,599
	2019	*79,083	66,539	65,221
	2020	*79,083	56,618	55,673
	2021	*79,332	59,047	58,057

Refinery distillation capacity, throughput and output

Thousand metric tons

Country or area	Year	Capacity	Throughput	Output
Sweden	2018	*21,796	21,994	21,649
	2019	*21,796	18,933	18,078
	2020	*21,796	19,963	19,720
	2021	*21,796	21,549	21,411
Switzerland	2018	3,392	3,070	3,069
	2019	*3,392	2,781	2,763
	2020	*3,392	2,864	2,881
	2021	*3,392	2,353	2,372
Ukraine	2018	*19,600	3,890	4,008
	2019	*19,600	3,707	*2,843
	2020	*19,600	4,064	*2,703
	2021	*19,600	4,441	*2,926
United Kingdom	2018	*62,300	58,715	58,205
	2019	*62,300	58,949	58,726
	2020	*62,300	48,245	47,876
	2021	*62,300	48,800	48,162
Latin America & Carib.	2018	407,855	246,572	241,926
	2019	409,172	232,427	224,514
	2020	406,419	209,884	202,909
	2021	406,068	223,811	216,793
Argentina	2018	31,621	24,082	24,053
	2019	31,621	24,379	24,127
	2020	31,621	21,434	21,892
	2021	31,621	24,202	22,772
Aruba	2018	*11,463	..	..
	2019	*11,463	..	..
	2020	*11,463	..	..
	2021	*11,463	..	..
Bolivia (Plur. State of)	2018	3,394	2,551	2,326
	2019	3,394	2,223	2,020
	2020	3,341	2,089	1,964
	2021	3,341	2,094	1,980
Brazil	2018	123,122	90,953	91,463
	2019	123,396	91,799	91,193
	2020	123,309	96,861	94,945
	2021	*123,309	96,598	95,718
Chile	2018	*11,471	10,307	9,727
	2019	11,521	10,978	10,245
	2020	11,521	8,478	8,507
	2021	11,169	9,711	9,416
Colombia	2018	21,220	19,923	19,408
	2019	21,496	19,840	19,254
	2020	18,883	18,099	15,588
	2021	18,883	21,209	19,754
Cuba	2018	6,135	*2,888	2,751
	2019	*6,135	*1,791	1,701
	2020	*6,135	*2,160	2,052
	2021	*6,135	*1,538	1,461
Curaçao	2018	*16,708	3,433	3,060
	2019	*16,708	0	0
	2020	*16,708
	2021	*16,708

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Refinery distillation capacity, throughput and output

Thousand metric tons

Country or area	Year	Capacity	Throughput	Output
Dominican Republic	2018	1,721	1,279	1,208
	2019	2,486	1,283	1,156
	2020	2,486	498	475
	2021	2,486	1,248	977
Ecuador	2018	8,865	8,571	8,136
	2019	8,865	7,794	7,158
	2020	8,865	6,410	5,949
	2021	8,865	7,912	7,400
Guatemala	2018	*249	156	147
	2019	*250	146	146
	2020	*250	110	110
	2021	*250	132	132
Jamaica	2018	1,796	1,035	1,032
	2019	1,747	1,339	1,291
	2020	1,747	1,108	1,167
	2021	*1,747	1,149	1,011
Mexico	2018	81,796	34,035	33,417
	2019	81,796	33,668	32,418
	2020	81,796	33,103	32,360
	2021	81,796	39,218	38,144
Nicaragua	2018	998	*678	639
	2019	998	547	518
	2020	998	546	516
	2021	998	708	670
Paraguay	2018	370	..	..
	2019	370	..	..
	2020	370	..	..
	2021	370	..	..
Peru	2018	10,468	9,285	8,012
	2019	10,468	8,869	7,581
	2020	10,468	4,686	4,660
	2021	10,468	5,652	5,449
Suriname	2018	748	725	671
	2019	748	690	637
	2020	748	656	618
	2021	748	733	686
Trinidad and Tobago	2018	*8,379	5,373	5,032
	2019	*8,379	..	..
	2020	*8,379	..	..
	2021	*8,379	..	..
Uruguay	2018	2,494	2,165	2,073
	2019	2,494	2,054	1,991
	2020	2,494	1,897	1,845
	2021	2,494	2,096	2,041
Venezuela (Bolivar. Rep.)	2018	64,838	29,134	28,771
	2019	64,838	25,026	23,076
	2020	64,838	11,748	10,262
	2021	64,838	9,612	9,182
Northern America	2018	1,022,948	972,174	945,712
	2019	1,035,189	967,859	938,811
	2020	1,029,476	836,697	809,904
	2021	995,212	882,232	847,312

Refinery distillation capacity, throughput and output

Thousand metric tons

Country or area	Year	Capacity	Throughput	Output
Canada	2018	95,342	95,716	89,859
	2019	97,134	111,425	106,285
	2020	98,703	100,044	95,557
	2021	92,070	103,663	98,359
United States	2018	927,606	876,458	855,853
	2019	938,055	856,434	832,525
	2020	930,773	736,653	714,347
	2021	903,142	778,570	748,953
Oceania	2018	30,683	30,857	28,567
	2019	31,017	31,276	30,818
	2020	32,045	27,603	27,207
	2021	23,841	23,794	23,160
Australia	2018	22,354	24,065	22,070
	2019	22,688	24,000	23,680
	2020	23,711	21,495	21,217
	2021	15,508	17,906	17,476
New Zealand	2018	6,733	5,532	5,330
	2019	6,733	5,956	6,053
	2020	6,738	4,637	4,637
	2021	6,738	4,415	4,269
Papua New Guinea	2018	*1,596	1,260	1,167
	2019	*1,596	1,320	1,085
	2020	*1,596	1,472	1,352
	2021	*1,596	*1,474	*1,415