

Production of oil products from refineries – by type

Thousand metric tons

Table Notes

Production comprises all refinery output of all oil products.

The **Jet fuels** column comprises aviation gasoline, gasoline-type jet fuel and kerosene-type jet fuel.

The **Other products** column includes bitumen, ethane, feedstocks, lubricants, petroleum coke, paraffin waxes, white spirit, and other oil products.

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 67: Production of selected oil products from refineries, 1990-2022

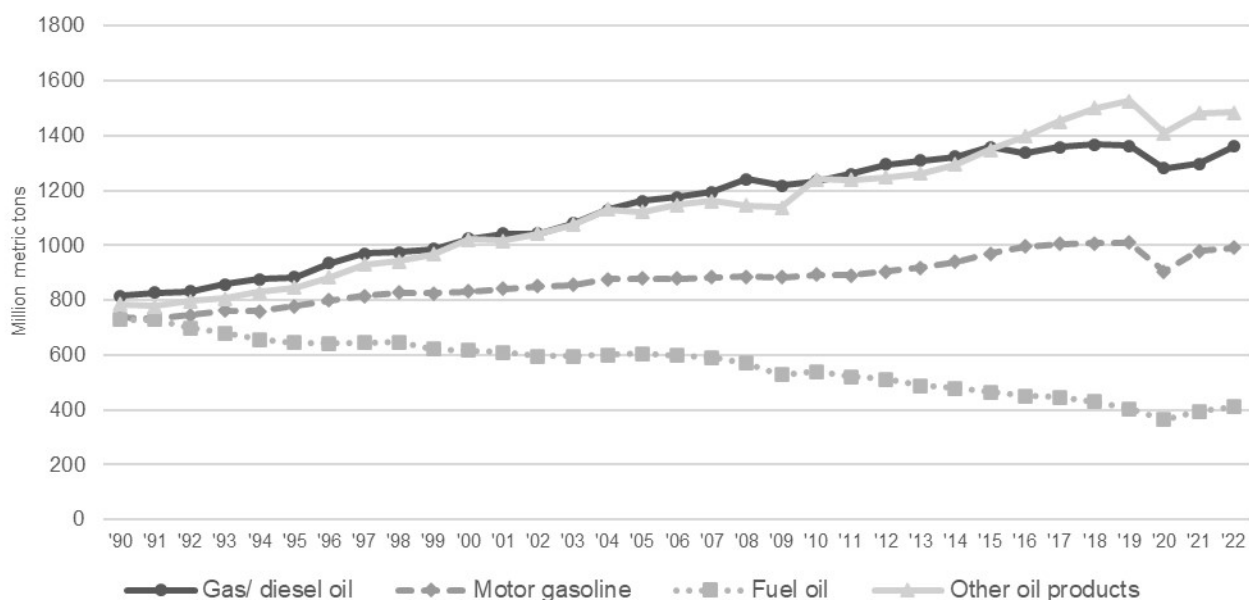


Table 25

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Thousand metric tons

Country or area	Year	Total	Gas/ diesel oil	Motor gasoline	Fuel oil	Naphtha	Jet fuels	Refinery gas	LPG	Other kerosene	Other products
World	2019	4,303,280	1,363,682	1,010,004	403,935	297,094	335,471	115,133	144,332	50,946	582,684
	2020	3,961,460	1,281,892	904,089	365,323	293,001	205,781	107,228	138,876	48,811	616,458
	2021	4,154,134	1,298,053	979,391	394,395	312,564	224,964	114,076	149,729	47,233	633,727
	2022	4,246,710	1,360,664	991,428	410,957	306,161	262,763	122,442	149,078	48,415	594,803
Africa	2019	97,879	34,334	16,906	20,518	10,575	7,661	1,575	2,069	882	3,360
	2020	85,788	30,246	14,831	18,577	10,332	4,546	1,167	2,020	812	3,257
	2021	84,946	29,778	14,631	18,456	11,363	4,013	1,025	2,003	312	3,365
	2022	81,239	28,800	13,103	16,902	11,291	4,624	884	1,984	286	3,365
Algeria	2019	28,903	9,590	3,253	5,915	7,568	1,221	347	658	*16	335
	2020	28,444	9,503	3,105	5,920	7,631	992	339	672	22	260
	2021	28,626	9,730	3,406	5,447	7,866	849	347	705	11	265
	2022	30,050	9,767	3,431	5,811	8,545	1,013	354	727	26	377
Angola	2019	2,563	615	39	1,072	333	329	74	28	24	49
	2020	1,995	548	11	574	348	294	25	25	143	27
	2021	1,869	*491	14	569	356	225	25	25	121	44
	2022	*2,122	*549	84	*696	300	261	*25	25	*93	88
Cameroon	2019	616	221	113	104	..	41	26	5	47	60
	2020	..	..	..	..	..	..	..	..	..	..
	2021	..	..	..	..	..	..	..	..	..	..
	2022	..	..	..	..	..	..	..	..	..	..
Chad	2019	*680	*353	*171	*26	..	*37	..	*35	*4	*54
	2020	*705	*368	*181	*20	..	*39	..	*42	*3	*52
	2021	*773	*407	*201	*26	..	*39	..	*46	*4	*53
	2022	*776	*394	*216	*28	..	*36	..	*45	*4	*53
Congo	2019	735	221	65	368	10	38	..	8	7	19
	2020	713	210	62	367	9	33	..	8	4	19
	2021	738	218	64	380	9	34	..	8	5	19
	2022	784	230	68	406	10	37	..	9	5	20
Côte d'Ivoire	2019	3,711	1,411	844	704	..	552	23	22	..	155
	2020	3,329	1,342	929	632	..	236	21	22	..	149
	2021	4,111	1,648	1,287	701	..	268	24	13	..	170
	2022	4,106	1,914	1,216	457	..	332	22	12	..	153
Egypt	2019	29,540	9,742	5,492	7,544	1,460	2,618	153	686	51	1,795
	2020	27,361	9,300	5,323	7,019	1,405	1,795	146	635	35	1,703
	2021	29,059	9,251	5,906	7,599	2,019	1,570	159	660	31	1,864
	2022	26,696	9,228	5,436	6,491	1,489	1,499	146	673	29	1,705
Gabon	2019	619	203	30	313	..	36	..	5	22	9
	2020	818	241	54	438	..	39	..	10	23	13
	2021	932	304	66	492	..	28	..	11	17	14
	2022	882	248	61	484	..	38	..	14	23	14
Ghana	2019	624	198	125	205	..	80	..	4	12	..
	2020	496	150	66	216	..	28	..	1	35	..
	2021	285	70	43	145	..	1	..	2	24	..
	2022	40	14	0	27	..	..	..	0	..	..
Libya	2019	4,020	1,116	227	1,263	842	421	82	34	10	25
	2020	2,839	787	160	891	594	297	58	24	11	18
	2021	3,772	1,011	205	1,143	762	499	77	30	19	24
	2022	3,630	927	188	1,049	700	617	74	28	24	23
Niger	2019	818	473	252	17	..	0	15	61	..	..
	2020	791	455	250	14	..	0	11	61	..	..
	2021	698	425	190	16	..	..	*12	55	..	..
	2022	690	414	201	*18	..	..	*9	48	..	..

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Thousand metric tons

Country or area	Year	Total	Gas/ diesel oil	Motor gasoline	Fuel oil	Naphtha	Jet fuels	Refinery gas	LPG	Other kerosene	Other products
Nigeria	2019	528	81	107	224	36	5	12	3	60	1
	2020	0	0	0	0	0	0	0	0	0	0
	2021	*211	*92	..	*97	..	1	..	..	*21	..
	2022	235	90	..	117	..	4	..	..	24	..
Senegal	2019	886	522	84	191	71	..	12	3	2	..
	2020	757	472	64	179	30	..	10	3	..	..
	2021	868	520	78	187	68	..	11	3	..	..
	2022	604	352	87	140	11	..	8	5	..	..
South Africa	2019	19,212	7,535	5,030	2,062	214	2,211	801	221	596	543
	2020	12,434	4,676	3,491	1,570	123	777	532	199	504	559
	2021	8,148	3,596	2,262	751	21	480	349	168	29	492
	2022	5,150	2,065	1,135	309	16	763	220	113	31	498
South Sudan	2019	..	..	..	..	..	..	..	..	..	..
	2020	..	..	..	..	..	..	..	..	..	..
	2021	119	33	..	86	..	..	..	..	..	..
	2022	159	44	..	115	..	..	..	..	..	..
Sudan	2019	*3,625	*1,717	*937	285	*9	71	15	*281	*10	*299
	2020	3,653	1,611	1,011	262	*1	16	12	293	*2	*445
	2021	3,091	1,309	*817	*263	*1	19	11	250	*10	*412
	2022	3,869	1,971	870	*307	1	24	10	246	12	*427
Tunisia	2019	141	41	..	52	33	..	..	3	11	2
	2020	1,108	421	49	394	191	..	6	20	20	6
	2021	1,593	657	78	537	260	..	9	27	18	7
	2022	1,445	592	110	448	219	..	16	39	16	6
Zambia	2019	658	294	138	172	..	2	14	11	13	14
	2020	344	161	74	80	..	0	7	5	9	7
	2021	54	18	14	17	..	..	1	0	2	1
	2022	0	0	0	0	..	..	..	0	0	..
Asia	2019	2,065,312	622,926	381,551	188,021	197,606	169,567	62,958	76,527	35,514	330,641
	2020	1,986,069	592,836	353,774	181,756	196,820	112,357	60,576	76,641	35,798	375,511
	2021	2,108,222	611,923	390,393	203,089	216,182	115,728	65,185	84,215	34,470	387,038
	2022	2,128,517	653,019	389,792	214,453	213,864	123,938	69,692	84,318	34,129	345,313
Afghanistan	2019	*112	*44	*44	*12	..	..	..	..	..	*12
	2020	*46	*18	*18	*5	..	..	..	..	..	*5
	2021	*50	*19	*20	*5	..	..	..	..	..	*6
	2022	*50	*19	*20	*5	..	..	..	..	..	*6
Azerbaijan	2019	6,045	2,243	1,161	127	247	667	242	198	..	1,161
	2020	5,795	2,181	1,167	62	217	519	228	187	..	1,234
	2021	6,572	2,482	1,266	106	378	492	246	270	..	1,332
	2022	6,127	2,193	1,292	78	276	571	188	245	..	1,286
Bahrain	2019	13,386	4,210	755	2,662	1,706	3,097	..	136	0	820
	2020	11,200	3,947	537	1,948	1,562	2,326	..	124	..	756
	2021	11,517	4,440	472	2,250	1,635	1,932	..	110	..	678
	2022	12,628	4,524	702	2,771	1,640	2,318	..	125	..	548
Bangladesh	2019	1,408	638	95	344	101	..	15	13	95	107
	2020	1,058	451	84	275	77	1	12	9	83	65
	2021	1,777	720	75	416	144	238	17	12	73	82
	2022	1,582	637	66	368	127	210	14	11	65	85
Brunei Darussalam	2019	1,330	422	325	..	..	248	14	75	3	243
	2020	8,223	2,682	1,505	5	687	334	84	601	5	2,320
	2021	7,972	2,540	1,497	..	1,050	94	83	613	5	2,090
	2022	8,300	3,021	1,876	..	770	49	86	539	4	1,956

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Thousand metric tons

Country or area	Year	Total	Gas/ diesel oil	Motor gasoline	Fuel oil	Naphtha	Jet fuels	Refinery gas	LPG	Other kerosene	Other products
China	2019	763,910	173,083	148,807	45,061	66,201	51,511	21,879	42,100	1,715	213,554
	2020	808,477	165,299	142,567	57,807	71,907	*38,764	23,486	44,890	*2,531	261,227
	2021	842,814	168,470	160,673	60,407	83,808	*39,136	24,797	47,855	*1,303	256,366
	2022	815,100	192,901	146,346	62,247	84,840	28,240	24,573	48,498	1,389	226,067
Georgia	2019	37	15	1	16	4	..	..	..	..	..
	2020	37	12	10	12	3	..	..	..	..	1
	2021	50	18	9	18	4	..	..	..	..	1
	2022	43	15	5	19	3	..	..	..	..	1
India	2019	263,195	111,841	38,616	8,609	*19,399	*15,212	*15,470	10,723	3,141	40,184
	2020	231,656	101,170	35,779	*6,882	*18,421	*7,077	*13,552	10,213	2,393	*36,169
	2021	256,275	107,980	40,238	8,237	19,994	*10,261	*14,746	12,238	1,916	*40,665
	2022	269,158	114,421	42,817	9,242	17,036	15,000	*17,356	12,832	948	39,506
Indonesia	2019	41,413	17,307	11,310	1,168	1,619	3,389	694	861	896	4,170
	2020	40,752	16,769	11,496	*1,273	1,883	2,446	628	850	614	4,794
	2021	40,674	17,883	10,942	*3,928	27	1,924	566	864	*415	4,124
	2022	39,603	16,461	11,600	3,404	121	2,156	609	873	333	4,047
Iran (Islamic Rep. of)	2019	100,133	33,156	26,036	22,312	2,594	1,461	2,303	2,396	2,107	7,768
	2020	95,861	31,915	24,781	19,926	3,904	806	2,376	2,262	2,212	7,679
	2021	100,865	32,369	25,229	22,538	4,947	1,167	2,592	2,171	1,944	7,907
	2022	104,248	33,705	26,443	21,903	5,185	1,242	2,548	2,415	2,065	8,743
Iraq	2019	29,619	5,825	2,553	16,880	1,797	235	204	208	1,521	396
	2020	25,664	5,239	2,063	14,169	1,936	106	176	237	1,312	426
	2021	29,551	5,942	1,940	16,676	2,456	176	203	236	1,382	541
	2022	32,775	6,700	2,706	18,732	2,329	167	225	239	1,163	513
Israel	2019	15,268	5,389	2,946	2,425	1,383	1,420	615	425	..	665
	2020	12,832	4,973	2,491	1,531	1,392	557	706	374	..	807
	2021	13,411	5,186	2,686	1,637	1,402	694	496	429	..	883
	2022	14,202	5,342	2,731	2,274	1,208	1,110	545	407	..	586
Japan	2019	147,427	44,287	36,020	14,321	12,546	12,238	5,833	3,401	10,777	8,004
	2020	121,293	37,088	31,997	12,589	9,086	5,045	4,988	2,846	10,655	6,999
	2021	128,925	39,274	33,455	14,219	9,868	6,711	5,362	2,963	9,837	7,236
	2022	135,661	41,682	34,154	15,856	10,311	8,598	5,486	2,738	9,388	7,448
Jordan	2019	2,174	759	547	369	..	163	*40	68	*35	*193
	2020	1,780	614	366	342	..	143	*35	54	78	*149
	2021	1,777	650	443	356	..	201	..	61	54	12
	2022	1,565	536	454	209	..	146	*18	62	61	*78
Kazakhstan	2019	15,910	5,033	4,533	2,875	..	629	264	1,035	5	1,536
	2020	14,925	4,674	4,482	2,255	..	444	343	1,047	3	1,678
	2021	17,257	4,980	4,811	2,842	..	606	930	1,464	9	1,616
	2022	19,090	5,425	4,964	3,387	10	671	1,265	1,158	8	2,202
Korea, Dem.Ppl's.Rep.	2019	515	191	178	109	..	..	..	..	37	..
	2020	515	191	178	109	..	..	..	..	37	..
	2021	515	191	178	109	..	..	..	..	37	..
	2022	515	191	178	109	..	..	..	..	37	..
Korea, Republic of	2019	157,811	49,425	19,722	8,526	36,758	21,544	4,729	2,882	2,781	11,444
	2020	147,105	47,180	16,770	11,204	33,734	14,199	4,370	2,476	5,745	11,427
	2021	147,548	45,283	19,526	11,300	33,600	12,255	4,061	2,532	6,925	12,066
	2022	157,730	48,502	19,820	13,803	35,366	15,492	4,057	2,201	6,125	12,363
Kuwait	2019	32,155	8,168	2,587	8,357	5,561	1,573	288	166	3,965	1,490
	2020	28,487	8,866	2,189	5,122	5,528	1,328	265	154	3,348	1,686
	2021	34,708	9,300	2,613	6,367	7,319	1,917	315	151	4,831	1,894
	2022	38,872	11,544	2,726	5,061	7,010	2,565	995	206	6,800	1,966

Production of oil products from refineries - by type

Thousand metric tons

Country or area	Year	Total	Gas/ diesel oil	Motor gasoline	Fuel oil	Naphtha	Jet fuels	Refinery gas	LPG	Other kerosene	Other products
Kyrgyzstan	2019	318	83	103	115	..	..	..	15	..	2
	2020	162	58	13	84	..	..	..	7	..	0
	2021	269	97	21	151	..	..	..	..	..	..
	2022	303	115	24	164	..	..	..	..	..	..
Malaysia	2019	21,227	8,359	5,064	1,400	*1,506	3,363	135	783	8	*610
	2020	21,710	9,063	4,846	1,214	*2,818	2,383	144	493	12	*736
	2021	20,591	6,066	6,438	1,510	*1,995	2,312	142	1,613	10	*504
	2022	20,260	7,258	6,470	1,420	*1,794	2,080	128	649	7	*453
Myanmar	2019	207	103	52	23	..	12	..	6	0	11
	2020	237	94	53	35	..	8	..	7	0	40
	2021	185	74	49	34	..	12	..	6	..	10
	2022	194	77	52	27	..	15	..	13	..	10
Oman	2019	12,031	3,463	3,311	336	1,374	1,804	136	495	2	1,111
	2020	10,528	3,870	2,718	204	1,409	898	116	451	1	861
	2021	11,511	4,593	3,110	60	1,535	764	137	515	1	796
	2022	12,760	4,462	3,460	338	1,471	1,027	155	536	2	1,309
Other Asia	2019	51,450	16,497	9,046	4,100	9,541	4,568	2,590	1,166	2	3,940
	2020	43,288	12,614	7,129	4,941	8,533	3,584	2,345	857	5	3,281
	2021	46,493	13,198	8,933	4,743	9,198	3,260	2,421	1,093	5	3,641
	2022	47,803	14,745	9,212	3,907	9,256	3,732	2,348	1,064	4	3,534
Pakistan	2019	10,044	3,965	1,986	2,251	396	590	*32	410	87	*326
	2020	11,566	4,901	2,535	2,580	380	494	*37	199	95	345
	2021	11,401	4,713	2,496	2,408	335	629	*36	203	95	485
	2022	9,873	3,909	2,245	2,055	218	671	30	198	90	455
Philippines	2019	7,735	3,227	1,689	702	161	810	..	286	33	828
	2020	4,525	2,061	936	356	86	343	..	152	24	568
	2021	3,743	1,717	833	30	0	270	..	150	22	722
	2022	5,661	2,391	1,304	7	68	683	..	207	25	978
Qatar	2019	16,201	2,316	1,691	1,045	5,553	3,299	58	1,333	..	907
	2020	16,715	2,399	1,602	1,099	5,862	3,399	55	1,399	..	900
	2021	17,159	2,462	1,651	1,127	6,012	3,489	57	1,435	..	926
	2022	17,250	2,471	1,715	1,125	5,992	3,510	59	1,433	..	945
Saudi Arabia	2019	129,546	52,588	23,197	22,605	6,072	4,848	*2,204	1,307	6,077	10,648
	2020	112,331	49,260	19,990	18,501	5,340	1,984	*2,013	1,142	4,890	9,211
	2021	140,201	55,489	23,826	22,536	7,570	2,072	*3,327	1,248	3,858	*20,276
	2022	137,270	59,189	27,028	26,388	6,156	3,564	3,617	1,430	3,676	6,220
Singapore	2019	49,843	10,512	8,122	4,853	4,296	11,347	2,916	855	256	6,686
	2020	41,391	8,757	6,634	4,043	3,605	9,641	2,345	712	83	5,571
	2021	41,906	8,902	7,160	4,110	3,519	9,410	2,335	724	84	5,662
	2022	46,469	9,971	7,889	4,602	3,941	9,551	2,679	811	146	6,878
Sri Lanka	2019	1,825	624	186	483	162	259	27	27	38	19
	2020	1,669	538	164	469	164	157	27	25	109	15
	2021	1,219	371	124	359	107	131	10	17	98	3
	2022	483	130	40	189	31	55	4	5	26	3
Syrian Arab Republic	2019	6,086	1,920	506	2,511	502	184	80	64	3	315
	2020	6,345	2,002	528	2,618	524	192	84	67	3	329
	2021	6,135	1,936	510	2,531	506	186	81	65	3	318
	2022	6,135	1,936	510	2,531	506	186	81	65	3	318
Tajikistan	2019	30	13	0	15	..	..	..	..	..	3
	2020	16	6	0	8	..	..	..	..	..	3
	2021	22	8	0	10	..	..	..	..	..	3
	2022	13	4	1	5	..	..	..	..	..	3

Table 25

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Thousand metric tons

Country or area	Year	Total	Gas/ diesel oil	Motor gasoline	Fuel oil	Naphtha	Jet fuels	Refinery gas	LPG	Other kerosene	Other products
Thailand	2019	58,966	22,433	9,686	5,152	9,454	6,168	511	1,663	1,619	2,280
	2020	58,138	26,208	9,393	4,663	9,279	2,640	502	1,765	1,309	2,379
	2021	57,011	25,587	9,169	5,260	9,129	1,698	497	1,840	1,329	2,503
	2022	54,037	21,008	9,558	5,418	8,680	3,025	520	1,861	1,521	2,446
Türkiye	2019	37,005	13,817	5,298	3,114	1,138	5,964	1,084	1,082	10	5,498
	2020	35,315	17,085	4,168	459	1,504	2,926	1,134	971	6	7,062
	2021	37,795	17,391	4,612	1,602	1,895	3,306	1,158	1,014	2	6,815
	2022	40,821	17,684	5,173	1,943	1,904	4,716	1,536	1,100	2	6,763
Turkmenistan	2019	7,549	2,480	2,337	1,513	..	326	104	322	134	331
	2020	7,067	2,396	2,259	1,463	..	87	101	312	130	320
	2021	7,122	2,428	2,288	1,482	..	54	99	316	132	324
	2022	7,373	2,509	2,364	1,531	..	75	97	326	136	335
United Arab Emirates	2019	45,284	11,343	6,412	2,958	7,123	11,829	377	587	..	4,655
	2020	39,931	10,660	6,011	2,695	6,694	8,636	333	529	..	4,374
	2021	44,741	11,941	6,546	3,024	7,499	9,852	380	598	..	4,900
	2022	44,450	9,820	7,078	2,629	7,362	11,768	375	607	..	4,811
Uzbekistan	2019	3,611	1,030	1,016	211	..	157	*114	830	6	247
	2020	3,359	954	1,044	170	..	124	91	741	4	231
	2021	3,488	799	1,044	308	..	118	91	803	4	321
	2022	3,785	894	1,259	128	..	181	98	875	7	343
Viet Nam	2019	12,815	5,647	5,470	178	..	559	..	496	..	465
	2020	14,888	6,315	5,173	440	..	699	..	410	..	1,852
	2021	13,938	6,138	5,420	218	..	303	..	538	..	1,322
	2022	15,286	6,337	5,423	401	..	506	..	518	..	2,101
Yemen	2019	1,690	469	143	286	410	94	..	115	160	13
	2020	1,180	328	100	199	286	66	..	80	112	9
	2021	1,034	287	87	175	251	57	..	70	98	8
	2022	1,043	290	88	176	253	58	..	71	99	8
Europe	2019	947,072	347,605	164,415	129,442	70,275	52,767	22,210	47,566	13,482	99,310
	2020	849,668	324,245	146,699	108,454	67,025	29,513	19,751	43,816	11,126	99,039
	2021	874,469	327,846	156,606	111,256	67,664	31,950	20,322	45,325	11,513	101,986
	2022	893,291	332,809	162,262	112,037	64,553	42,749	22,440	43,922	12,908	99,611
Albania	2019	323	76	1	..	23	..	7	..	..	217
	2020	131	10	..	..	18	..	3	..	..	100
	2021	158	..	..	..	22	..	3	..	..	133
	2022	117	..	..	..	16	..	2	..	..	99
Austria	2019	9,530	3,972	1,971	735	1,006	894	316	137	15	485
	2020	8,438	3,617	1,714	737	1,051	363	284	117	13	542
	2021	8,366	3,510	1,766	645	1,087	344	296	150	9	560
	2022	6,161	2,008	1,310	778	822	405	389	106	27	317
Belarus	2019	17,607	7,003	2,900	4,382	..	463	713	292	14	1,840
	2020	16,083	6,112	3,009	3,515	..	225	644	296	10	2,272
	2021	16,083	6,112	3,009	3,515	..	225	644	296	10	2,272
	2022	14,423	5,310	2,874	3,174	..	214	575	299	2	1,976
Belgium	2019	35,151	14,695	4,253	4,585	2,769	2,195	685	1,069	25	4,876
	2020	27,511	12,807	3,111	2,582	2,481	830	499	1,036	26	4,140
	2021	30,722	14,582	3,244	2,472	2,552	712	610	1,061	35	5,455
	2022	28,663	12,930	3,035	2,285	2,260	1,638	681	693	31	5,111
Bosnia and Herzegovina	2019	74	9	18	25	1	..	..	1	..	20
	2020	13	..	..	..	..	..	..	..	..	13
	2021	13	..	..	..	..	..	..	..	..	13
	2022	14	..	..	..	..	..	..	..	..	14

Production of oil products from refineries - by type

Thousand metric tons

Country or area	Year	Total	Gas/ diesel oil	Motor gasoline	Fuel oil	Naphtha	Jet fuels	Refinery gas	LPG	Other kerosene	Other products
Bulgaria	2019	6,968	3,191	1,778	581	487	232	374	131	..	195
	2020	5,061	2,491	1,224	259	372	138	324	77	..	177
	2021	4,437	2,127	1,002	209	338	177	290	64	..	232
	2022	7,283	3,326	1,784	552	543	242	426	91	..	319
Croatia	2019	2,908	1,239	712	397	14	158	129	156	..	102
	2020	2,560	1,190	626	267	36	58	114	151	..	117
	2021	2,428	1,122	585	291	9	80	99	153	..	90
	2022	2,247	965	499	274	5	150	88	121	..	147
Czechia	2019	8,089	3,409	1,483	139	911	216	148	400	..	1,383
	2020	6,341	2,713	1,184	93	707	48	112	312	..	1,172
	2021	7,399	3,169	1,456	82	888	65	135	394	..	1,210
	2022	7,717	3,253	1,398	111	917	117	129	355	..	1,437
Denmark	2019	8,635	4,251	2,225	1,592	..	121	320	127	..	..
	2020	8,176	4,075	2,133	1,469	..	79	308	113	..	..
	2021	8,260	4,111	2,133	1,505	..	92	326	92	..	..
	2022	8,075	3,843	2,112	1,578	..	144	318	81	..	..
Finland	2019	14,689	6,324	4,441	1,412	133	725	538	289	..	827
	2020	13,549	5,919	4,209	1,549	91	258	495	245	..	783
	2021	9,783	3,988	3,292	1,179	32	318	359	174	..	441
	2022	11,920	4,254	4,132	1,689	41	692	471	139	..	502
France	2019	50,842	20,799	9,298	6,176	4,267	3,889	1,178	1,357	..	3,878
	2020	36,911	15,469	7,565	4,066	3,324	1,481	905	886	..	3,216
	2021	36,175	15,158	7,299	4,124	3,508	1,105	754	1,029	..	3,198
	2022	42,224	16,834	7,340	6,196	4,255	2,526	1,113	1,063	..	2,897
Germany	2019	97,682	41,610	20,269	7,034	6,662	5,077	3,835	3,232	4	9,959
	2020	93,170	41,655	19,621	6,220	6,820	2,519	3,538	2,885	..	9,912
	2021	93,398	39,285	19,139	7,421	7,382	2,892	3,481	3,025	13	10,760
	2022	98,658	43,023	20,296	6,945	7,465	4,463	3,790	2,768	33	9,875
Greece	2019	30,133	10,252	5,007	5,172	1,618	2,813	776	802	..	3,694
	2020	28,766	11,523	4,613	3,467	2,259	1,638	660	780	..	3,824
	2021	30,538	11,352	5,131	4,977	2,094	1,902	738	860	..	3,486
	2022	30,568	10,177	5,120	5,241	1,521	2,895	729	845	..	4,040
Hungary	2019	7,398	3,114	1,089	21	880	300	206	110	..	1,678
	2020	7,292	3,081	1,107	23	983	123	203	109	..	1,663
	2021	7,222	3,002	1,041	61	1,018	141	180	108	..	1,671
	2022	6,830	2,694	1,148	45	881	219	191	99	..	1,553
Ireland	2019	2,742	1,044	518	725	42	..	62	45	307	..
	2020	2,892	1,043	537	824	89	..	69	52	277	..
	2021	3,057	1,086	544	971	89	..	70	42	255	..
	2022	3,033	1,117	535	860	120	..	84	37	279	..
Italy	2019	73,437	31,469	16,377	6,709	4,965	2,706	2,733	1,269	471	6,738
	2020	60,231	25,795	12,231	5,628	3,919	1,289	2,322	1,290	333	7,423
	2021	68,804	30,296	15,421	7,431	3,396	1,422	2,364	1,387	88	6,999
	2022	73,017	32,202	16,087	6,676	4,181	2,208	2,625	1,340	457	7,243
Lithuania	2019	9,605	3,240	2,465	1,539	..	996	302	399	..	665
	2020	7,905	2,588	2,136	1,105	..	878	247	333	..	618
	2021	8,086	2,595	2,385	1,145	..	770	278	341	..	572
	2022	8,339	2,714	2,389	1,107	114	857	301	294	..	563
Netherlands (Kingd. of the)	2019	61,874	20,550	3,997	8,909	11,445	8,810	2,310	1,566	305	3,983
	2020	55,361	20,419	3,861	9,023	10,800	4,521	1,950	1,303	260	3,223
	2021	58,948	22,967	4,346	7,743	10,555	4,381	2,190	1,544	540	4,684
	2022	58,433	19,736	3,743	9,900	10,085	7,127	2,329	1,219	433	3,861

Table 25

Production of oil products from refineries - by type

Thousand metric tons

Country or area	Year	Total	Gas/ diesel oil	Motor gasoline	Fuel oil	Naphtha	Jet fuels	Refinery gas	LPG	Other kerosene	Other products
Norway	2019	15,865	6,545	3,616	1,806	1,329	655	426	1,085	40	363
	2020	14,579	5,823	3,522	1,494	1,417	371	406	1,165	13	368
	2021	13,826	5,010	4,147	669	1,395	465	424	1,231	0	484
	2022	9,861	3,339	3,566	147	754	419	328	892	0	415
Poland	2019	28,457	12,859	4,312	3,115	2,020	1,355	702	630	0	3,464
	2020	26,988	12,893	3,982	2,011	2,138	616	777	657	0	3,914
	2021	26,626	13,066	3,897	1,919	1,857	758	851	649	0	3,630
	2022	28,591	13,942	4,048	2,220	2,248	1,153	614	626	0	3,742
Portugal	2019	12,762	4,614	2,401	2,114	1,091	1,346	13	165	0	1,018
	2020	11,908	4,783	1,956	2,416	953	588	16	162	0	1,033
	2021	11,186	4,361	2,146	2,474	689	662	36	119	0	698
	2022	11,847	4,285	2,247	2,582	677	1,156	23	79	..	798
Republic of Moldova	2019	6	0	..	4	..	..	..	..	..	1
	2020	7	..	4	2	..	..	..	..	..	0
	2021	2	..	..	2	..	..	..	..	..	0
	2022	3	1	2	1	..	..	..	..	..	..
Romania	2019	13,327	6,139	3,485	193	181	512	842	625	1	1,351
	2020	11,728	5,711	3,022	153	150	204	726	514	0	1,247
	2021	11,118	5,182	2,939	182	166	231	696	491	..	1,231
	2022	12,414	5,720	3,326	141	185	410	738	562	..	1,331
Russian Federation	2019	282,261	81,560	39,494	58,417	25,783	13,176	..	29,077	*428	34,325
	2020	265,576	79,113	37,915	50,823	25,010	10,934	..	27,624	*450	33,708
	2021	274,958	80,557	40,285	51,575	26,043	12,886	..	27,921	*450	35,240
	2022	269,790	82,461	42,054	47,270	23,076	11,474	..	28,174	*450	34,832
Serbia	2019	3,495	1,458	445	257	398	155	62	94	..	626
	2020	3,607	1,594	451	203	456	88	63	100	..	653
	2021	3,915	1,795	505	100	540	120	70	117	..	669
	2022	4,406	2,116	563	188	516	166	98	151	..	607
Slovakia	2019	5,580	2,562	1,137	535	430	72	494	164	..	186
	2020	6,045	2,769	1,050	618	534	33	504	137	..	400
	2021	6,034	2,731	1,103	540	584	37	556	129	..	354
	2022	5,856	2,643	1,171	482	440	75	530	122	..	393
Spain	2019	65,221	27,005	9,087	5,056	1,438	454	2,113	1,167	9,816	9,085
	2020	55,673	24,240	7,822	2,443	1,309	155	1,907	920	7,839	9,038
	2021	58,057	24,186	9,668	2,645	1,444	316	1,953	1,240	8,379	8,227
	2022	61,997	26,023	9,879	3,643	1,679	427	2,705	1,135	9,154	7,352
Sweden	2019	18,078	5,698	3,653	4,413	293	259	489	446	..	2,827
	2020	19,720	5,975	3,558	3,860	248	122	570	401	..	4,986
	2021	21,411	6,418	4,561	3,936	358	16	929	626	..	4,566
	2022	21,084	5,826	4,594	4,032	228	78	847	566	..	4,912
Switzerland	2019	2,763	1,577	596	311	19	3	119	108	..	30
	2020	2,881	1,681	566	364	15	9	121	97	..	28
	2021	2,372	1,360	499	294	21	..	102	70	..	27
	2022	3,106	1,716	685	429	13	3	130	77	..	51
Ukraine	2019	*2,843	*813	*901	74	..	..	41	409	..	605
	2020	*2,703	*850	*815	75	..	..	50	305	..	608
	2021	*2,926	*850	*711	82	..	..	55	306	..	923
	2022	*2,655	*724	*565	*82	..	..	*55	*306	..	*923
United Kingdom	2019	58,726	20,528	16,488	3,016	2,072	5,185	2,277	2,214	2,057	4,889
	2020	47,862	18,306	13,155	3,168	1,844	1,943	1,933	1,749	1,903	3,861
	2021	48,161	17,868	14,353	3,068	1,599	1,834	1,836	1,708	1,734	4,161
	2022	53,959	19,628	15,762	3,409	1,511	3,490	2,134	1,682	2,042	4,301

Production of oil products from refineries - by type

Thousand metric tons

Country or area	Year	Total	Gas/ diesel oil	Motor gasoline	Fuel oil	Naphtha	Jet fuels	Refinery gas	LPG	Other kerosene	Other products
Latin America & Carib.	2019	223,468	73,740	50,003	39,835	8,801	12,134	9,087	6,380	239	23,251
	2020	203,012	69,840	40,835	40,581	9,997	6,348	8,263	6,004	222	20,921
	2021	215,887	71,528	47,474	44,684	8,515	8,073	9,442	6,351	247	19,573
	2022	232,191	75,292	50,145	47,607	9,144	11,608	9,788	6,441	255	21,911
Argentina	2019	23,086	9,484	5,440	2,138	640	1,466	925	773	8	2,212
	2020	21,892	9,159	4,986	2,683	1,157	520	876	629	9	*1,872
	2021	22,048	9,305	5,321	2,059	1,097	592	897	721	7	2,050
	2022	22,825	9,427	5,437	2,209	1,146	1,163	832	738	6	1,866
Bolivia (Plur. State of)	2019	2,020	582	916	..	0	177	89	111	20	123
	2020	1,964	623	963	..	0	85	95	108	14	76
	2021	1,980	543	1,038	..	0	111	92	106	17	73
	2022	1,807	416	992	..	0	150	89	102	13	45
Brazil	2019	91,193	35,557	17,684	11,626	3,250	4,916	4,022	3,926	5	10,207
	2020	94,945	36,687	16,068	16,643	4,486	2,703	4,058	3,971	4	10,325
	2021	95,718	35,980	18,808	16,352	3,347	3,260	4,430	3,984	4	9,553
	2022	103,361	38,227	19,504	18,482	4,201	3,876	4,456	4,236	7	10,372
Chile	2019	10,245	3,077	3,319	993	137	880	242	543	161	894
	2020	8,507	2,529	2,626	997	60	491	175	461	153	1,015
	2021	9,416	3,053	2,802	1,087	233	365	192	489	177	1,021
	2022	8,423	2,597	2,360	720	209	528	177	369	157	1,306
Colombia	2019	19,254	6,458	4,384	3,036	942	1,144	253	274	5	2,759
	2020	15,588	6,295	3,085	1,656	1,509	876	254	307	1	1,605
	2021	18,985	7,365	4,190	2,716	1,509	1,174	541	406	7	1,078
	2022	20,008	7,416	4,284	1,588	1,509	2,689	*545	300	..	1,678
Cuba	2019	1,701	447	199	766	105	83	5	22	1	73
	2020	2,052	541	291	903	148	37	14	39	4	74
	2021	1,461	382	107	664	172	37	8	28	4	59
	2022	1,396	369	103	640	*140	34	8	13	4	85
Dominican Republic	2019	1,141	328	107	329	144	193	11	27	2	..
	2020	479	129	42	136	59	83	5	17	7	..
	2021	1,118	292	108	366	140	158	11	35	7	..
	2022	1,150	328	107	329	144	193	11	27	11	..
Ecuador	2019	7,158	1,741	1,230	2,866	..	360	50	88	..	824
	2020	5,949	1,310	943	2,607	..	192	40	100	..	757
	2021	7,404	1,679	1,089	3,380	..	277	48	102	..	829
	2022	7,835	1,738	1,162	3,534	..	370	57	119	..	854
Guatemala	2019	146	..	..	..	..	..	..	..	..	146
	2020	110	..	..	..	..	..	..	..	..	110
	2021	132	..	..	..	..	..	..	..	..	132
	2022	136	..	..	..	..	..	..	..	..	136
Jamaica	2019	1,291	128	181	887	..	65	..	11	..	*20
	2020	1,167	183	138	785	..	41	..	9	..	11
	2021	1,011	162	120	680	..	33	..	4	..	11
	2022	946	143	105	653	..	31	..	4	..	10
Mexico	2019	32,418	6,972	8,213	8,472	2,201	1,234	2,319	222	..	2,785
	2020	32,360	6,427	7,993	10,019	1,747	796	2,162	172	..	3,044
	2021	38,144	5,960	9,488	13,874	1,554	1,297	2,709	267	..	2,995
	2022	43,836	8,005	11,145	14,689	1,636	1,509	2,979	333	..	3,540
Nicaragua	2019	518	233	108	96	..	17	24	21	5	14
	2020	516	267	111	77	..	8	24	16	4	9
	2021	670	368	134	95	..	11	30	19	4	10
	2022	712	404	128	93	..	22	31	21	4	9

Table 25

Production of oil products from refineries - by type

Thousand metric tons

Country or area	Year	Total	Gas/ diesel oil	Motor gasoline	Fuel oil	Naphtha	Jet fuels	Refinery gas	LPG	Other kerosene	Other products
Peru	2019	7,581	2,560	1,409	2,316	..	686	149	214	..	248
	2020	4,748	2,499	1,107	570	..	210	50	46	..	266
	2021	5,876	2,742	1,743	574	..	391	56	47	..	323
	2022	5,768	2,134	1,403	1,417	..	431	99	50	..	233
Suriname	2019	637	311	61	255	..	..	..	..	..	10
	2020	618	292	59	262	..	..	..	..	..	5
	2021	686	333	71	278	..	..	..	..	..	*4
	2022	685	325	76	273	..	..	..	..	..	11
Uruguay	2019	2,001	850	549	225	..	100	*64	102	4	108
	2020	1,856	845	511	214	..	42	*73	96	6	70
	2021	2,051	960	556	237	..	45	*67	111	4	72
	2022	2,039	961	*567	226	..	84	*68	96	4	33
Venezuela (Bolivar. Rep.)	2019	23,076	5,011	6,203	5,831	1,381	814	934	45	28	2,828
	2020	10,262	2,055	1,912	3,028	830	264	439	33	20	1,681
	2021	9,187	2,404	1,902	2,322	464	322	361	31	16	1,365
	2022	11,264	2,803	2,771	2,755	159	528	435	32	50	1,733
Northern America	2019	938,764	275,033	387,464	24,709	9,405	88,736	18,238	11,235	715	123,228
	2020	809,729	255,366	339,558	15,034	8,222	49,987	16,574	9,853	789	114,346
	2021	847,603	248,491	362,594	16,250	8,233	63,935	17,355	11,311	637	118,796
	2022	896,288	264,981	371,458	19,500	6,700	79,153	19,059	12,212	783	122,444
Canada	2019	106,238	32,356	31,050	4,994	1,166	5,560	3,411	1,557	242	25,902
	2020	95,382	31,655	28,584	3,637	963	2,617	2,991	1,408	218	23,309
	2021	98,649	31,572	29,336	3,784	900	3,117	3,081	1,478	194	25,186
	2022	104,391	32,965	28,731	5,657	1,315	4,449	3,181	1,448	164	26,480
United States	2019	832,525	242,678	356,414	19,715	8,239	83,176	14,827	9,679	473	97,326
	2020	714,347	223,712	310,974	11,398	7,258	47,370	13,583	8,446	571	91,037
	2021	748,953	216,919	333,258	12,466	7,333	60,818	14,274	9,833	442	93,611
	2022	791,898	232,015	342,727	13,843	5,385	74,703	15,878	10,764	619	95,964
Oceania	2019	30,786	10,044	9,665	1,410	433	4,606	1,065	555	114	2,894
	2020	27,194	9,358	8,392	921	606	3,030	897	542	64	3,384
	2021	23,007	8,487	7,693	660	607	1,264	749	524	55	2,969
	2022	15,183	5,763	4,667	459	610	692	578	201	55	2,159
Australia	2019	23,680	7,595	8,171	909	..	3,162	807	534	..	2,503
	2020	21,217	7,020	7,164	740	..	2,326	713	525	..	2,729
	2021	17,476	6,156	6,407	438	..	668	627	511	..	2,669
	2022	12,760	4,861	4,316	280	..	498	532	186	..	2,087
New Zealand	2019	5,898	2,028	1,494	422	..	1,330	258	..	..	367
	2020	4,568	1,803	1,229	80	..	638	184	..	..	635
	2021	4,269	1,913	1,250	155	..	531	122	..	..	300
	2022	1,104	437	314	107	..	128	47	..	..	72
Papua New Guinea	2019	1,208	422	..	80	433	113	..	21	114	25
	2020	1,409	535	..	101	606	66	..	17	64	20
	2021	1,261	419	36	67	607	66	..	13	55	..
	2022	*1,319	*465	*36	*72	*610	*66	..	*15	*55	..