

Production of minor oil products from refineries - by type

Thousand metric tons

Table Notes

Data refer to production from refineries of refinery gas, ethane, naphtha, lubricants, bitumen, paraffin waxes, petroleum coke, white spirit, and other oil products (which for this table includes refinery output of feedstocks).

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.

Table 24

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Country or area	Year	Refinery gas	Ethane	Naphtha	Lubricants	Bitumen	Paraffin waxes	Petroleum coke	White spirit and SBP	Other oil products
World	2020	108,342	2,048	287,848	45,972	127,166	4,079	130,732	6,198	309,998
	2021	115,884	2,042	304,634	49,606	127,516	4,749	145,404	6,473	310,908
	2022	123,898	2,135	300,607	45,855	114,858	5,038	136,221	6,728	287,034
	2023	124,844	2,221	320,518	43,305	112,904	5,044	138,747	6,588	278,890
Africa	2020	1,200	..	10,731	545	1,362	11	757	76	535
	2021	1,140	..	12,067	567	1,260	7	751	136	614
	2022	1,011	..	11,626	658	1,165	4	741	92	675
	2023	1,044	..	11,026	851	1,101	..	498	84	1,784
Algeria	2020	339	..	7,631	52	177	..	..	..	31
	2021	347	..	7,866	36	101	..	..	..	58
	2022	354	..	7,946	151	101	..	..	..	125
	2023	361	..	8,492	214	109	..	..	..	82
Angola	2020	25	..	348	5	11	..	..	..	11
	2021	25	..	356	4	14	..	..	..	25
	2022	*25	..	300	6	*38	..	..	..	44
	2023	65	..	159	..	25	..	..	..	..
Chad	2020	..	..	..	*1	*1	..	*36	..	*14
	2021	..	..	..	*1	*1	..	*36	..	*14
	2022	..	..	..	*1	*1	..	*37	..	*15
	2023	..	..	..	*1	*1	..	*37	..	*15
Congo	2020	..	..	12	..	..	..	..	..	19
	2021	..	..	12	..	..	..	..	..	19
	2022	..	..	12	..	..	..	..	..	29
	2023	..	..	12	..	..	..	..	..	37
Côte d'Ivoire	2020	21	..	..	20	129	..	..	..	..
	2021	24	..	..	21	149	..	..	..	..
	2022	22	..	..	22	131	..	..	..	..
	2023	26	..	..	23	161	..	..	..	..
Egypt	2020	146	..	1,405	319	706	..	277	..	401
	2021	159	..	2,019	349	773	..	303	..	440
	2022	146	..	1,489	319	707	..	277	..	402
	2023	130	..	876	285	631	..	247	..	1,586
Gabon	2020	..	..	..	11	2	..	..	..	..
	2021	..	..	..	12	2	..	..	..	..
	2022	..	..	..	12	2	..	..	..	..
	2023	..	..	..	12	2	..	..	..	..
Libya	2020	91	..	991	..	23	..	..	..	4
	2021	149	..	1,464	..	38	..	..	..	7
	2022	182	..	1,635	..	47	..	..	..	9
	2023	139	..	1,195	..	36	..	..	..	7
Niger	2020	11	..	..	..	..	..	..	..	*18
	2021	*12	..	..	..	..	..	..	..	*18
	2022	*9	..	..	..	..	..	..	..	*21
	2023	16	..	..	..	..	..	..	..	27
Senegal	2020	10	..	30	..	..	..	..	..	..
	2021	11	..	68	..	..	..	..	..	..
	2022	8	..	11	..	..	..	..	..	..
	2023	15	..	60	..	..	..	..	..	..
South Africa	2020	532	..	123	138	312	11	..	69	29
	2021	392	..	21	144	182	7	..	128	31
	2022	239	..	12	147	139	4	..	86	31
	2023	280	..	16	315	136	76	31

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Country or area	Year	Refinery gas	Ethane	Naphtha	Lubricants	Bitumen	Paraffin waxes	Petroleum coke	White spirit and SBP	Other oil products
Sudan	2020	12	..	*1	..	..	..	*445	..	..
	2021	11	..	*1	..	..	..	*412	..	..
	2022	10	..	1	..	..	..	*427	..	..
	2023	5	..	1	..	..	..	*214	..	..
Tunisia	2020	6	..	191	..	..	..	..	6	..
	2021	9	..	260	..	..	..	..	7	..
	2022	16	..	219	..	..	..	..	6	..
	2023	4	..	214	..	..	..	..	8	..
Zambia	2020	7	..	..	..	..	..	..	..	7
	2021	1	..	..	..	..	..	..	..	1
	2022	..	..	..	..	..	..	..	..	..
	2023	2	..	..	..	..	..	..	..	..
Asia	2020	61,673	..	191,264	15,124	70,174	2,819	52,649	1,805	242,923
	2021	66,407	..	207,544	16,821	69,068	3,259	67,630	1,639	240,790
	2022	70,808	..	208,182	15,656	58,963	3,860	53,699	1,690	214,128
	2023	74,066	..	228,265	15,050	57,952	3,903	56,586	1,775	207,251
Afghanistan	2020	..	..	..	..	*5	..	..	..	..
	2021	..	..	..	..	*3	..	..	..	..
	2022	..	..	..	..	*3	..	..	..	..
	2023	..	..	..	..	*3	..	..	..	..
Azerbaijan	2020	228	..	217	36	375	..	197	..	626
	2021	246	..	378	58	362	..	256	..	656
	2022	188	..	276	45	343	..	211	..	687
	2023	220	..	268	60	278	..	240	..	613
Bahrain	2020	..	..	1,562	..	345	..	..	..	411
	2021	..	..	1,635	..	190	..	..	..	488
	2022	..	..	1,640	..	141	..	..	..	407
	2023	..	..	1,420	..	262	..	..	..	495
Bangladesh	2020	12	..	77	21	31	..	..	0	13
	2021	17	..	144	21	53	..	..	..	9
	2022	14	..	127	20	55	..	..	..	10
	2023	14	..	118	16	63	..	..	..	8
Brunei Darussalam	2020	84	..	687	..	..	..	..	..	2,320
	2021	83	..	1,050	..	..	..	..	..	2,090
	2022	86	..	770	..	..	..	..	..	1,956
	2023	80	..	663	..	..	..	..	..	1,897
China	2020	23,486	..	71,907	2,634	39,505	2,494	29,569	400	193,339
	2021	24,796	..	83,808	2,443	41,145	2,921	30,411	624	186,437
	2022	24,573	..	84,840	2,014	28,793	3,540	30,155	805	160,760
	2023	28,628	..	107,802	1,878	27,812	3,652	33,491	913	149,436
Georgia	2020	..	..	3	..	1	..	..	..	..
	2021	..	..	4	..	1	..	..	..	..
	2022	..	..	3	..	1	..	..	..	..
	2023	..	..	3	..	..	..	..	..	..
India	2020	*13,552	..	*18,421	1,069	5,245	*97	*12,655	..	*17,103
	2021	*14,746	..	19,994	1,173	5,111	*101	*15,508	..	*18,772
	2022	*17,356	..	17,036	1,301	5,144	*101	16,044	..	*16,916
	2023	17,860	..	18,736	1,352	5,240	98	15,561	..	24,312
Indonesia	2020	628	..	1,883	330	97	*19	*550	20	3,778
	2021	566	..	27	305	147	*19	*550	*20	3,083
	2022	609	..	121	290	86	21	290	17	3,342
	2023	625	..	49	237	61	22	370	17	3,027

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Country or area	Year	Refinery gas	Ethane	Naphtha	Lubricants	Bitumen	Paraffin waxes	Petroleum coke	White spirit and SBP	Other oil products
Iran (Islamic Rep. of)	2020	2,376	..	3,904	1,842	6,222	..	..	439	666
	2021	2,592	..	4,947	1,991	6,033	..	..	294	1,736
	2022	2,559	..	4,885	2,193	6,859	..	..	211	1,198
	2023	2,607	..	4,977	2,235	6,989	..	..	215	1,221
Iraq	2020	194	..	1,882	60	5	4	..	..	172
	2021	222	..	2,224	103	1	7	..	..	298
	2022	245	..	1,962	124	..	8	..	..	357
	2023	274	..	2,332	98	..	7	..	..	283
Israel	2020	706	..	1,392	..	310	..	..	..	497
	2021	496	..	1,402	..	290	..	..	..	592
	2022	545	..	1,208	..	306	..	..	..	280
	2023	488	..	1,308	..	292	..	..	..	284
Japan	2020	4,988	..	9,086	1,808	2,277	80	1,021	45	1,768
	2021	5,362	..	9,868	1,755	2,247	81	1,246	49	1,859
	2022	5,486	..	10,311	1,829	2,250	57	1,272	41	1,999
	2023	5,056	..	9,421	1,536	1,825	32	905	28	1,744
Jordan	2020	*35	..	..	12	*135	..	..	..	*2
	2021	..	..	..	12	*96	..	..	..	..
	2022	..	..	..	13	*90	..	..	..	..
	2023	..	..	..	15	*124	..	..	..	..
Kazakhstan	2020	343	..	..	52	1,090	..	526	10	..
	2021	930	..	..	49	1,006	..	552	9	..
	2022	1,265	..	10	68	961	..	538	14	622
	2023	1,009	..	3	32	479	..	530	10	625
Korea, Republic of	2020	4,370	..	33,734	2,797	4,131	22	584	669	3,224
	2021	4,061	..	33,600	4,443	2,535	27	639	420	4,002
	2022	4,057	..	35,366	4,137	2,791	31	508	352	4,544
	2023	4,073	..	36,000	3,871	2,915	28	568	366	4,418
Kuwait	2020	265	..	6,582	..	277	..	1,008	..	402
	2021	315	..	5,862	..	296	..	1,137	..	461
	2022	995	..	7,010	..	110	..	1,193	..	662
	2023	1,254	..	7,372	..	131	..	1,417	..	797
Malaysia	2020	144	..	*2,818	*279	*405	*32	*20	..	1,925
	2021	142	..	*1,995	*190	*274	*25	*15	..	2,721
	2022	151	..	*1,794	*171	*246	*22	*14	..	2,233
	2023	162	..	*1,594	*181	*266	*23	*15	..	2,405
Myanmar	2020	..	..	..	..	..	..	13	..	27
	2021	..	..	..	..	..	..	9	..	1
	2022	..	..	..	..	..	..	9	..	1
	2023	..	..	..	..	..	..	10	..	0
Oman	2020	116	..	1,409	58	..	..	..	..	803
	2021	137	..	1,535	68	..	..	..	..	728
	2022	155	..	1,471	77	..	..	..	..	1,232
	2023	151	..	1,565	75	..	..	..	..	1,591
Other Asia	2020	2,345	..	8,533	644	686	..	1,065	31	854
	2021	2,421	..	9,198	584	588	..	1,230	40	1,200
	2022	2,348	..	9,256	656	639	..	1,204	43	992
	2023	1,889	..	9,460	587	587	..	1,190	43	784
Pakistan	2020	37	..	318	154	198	2	262
	2021	31	..	335	167	207	10	285
	2022	27	..	218	147	266	6	363
	2023	27	..	246	117	264	3	297

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Country or area	Year	Refinery gas	Ethane	Naphtha	Lubricants	Bitumen	Paraffin waxes	Petroleum coke	White spirit and SBP	Other oil products
Philippines	2020	..	..	86	..	3	..	..	..	565
	2021	..	..	0	..	0	..	..	..	722
	2022	..	..	68	..	..	..	..	..	978
	2023	..	..	123	..	..	..	..	..	1,019
Qatar	2020	55	..	5,862	..	..	..	..	..	900
	2021	57	..	6,012	..	..	..	..	..	926
	2022	59	..	5,992	..	..	..	..	..	948
	2023	60	..	6,033	..	..	..	..	..	955
Saudi Arabia	2020	*2,013	..	5,340	..	2,095	..	3,713	..	*3,403
	2021	*3,327	..	7,570	..	2,501	..	*14,130	..	*3,645
	2022	3,617	..	3,673	..	2,924	..	*289	..	3,008
	2023	3,284	..	1,052	..	2,897	..	*289	..	3,262
Singapore	2020	*3,394	..	*3,452	2,653	2,240	67	151	168	292
	2021	*3,602	..	*3,397	2,697	2,277	66	154	171	297
	2022	*3,841	..	3,941	*1,798	2,963	72	173	192	332
	2023	*3,746	..	1,485	1,669	*3,202	*33	150	160	..
Sri Lanka	2020	27	..	157	..	0	..	..	1	..
	2021	10	..	107	..	..	..	..	3	..
	2022	4	..	31	..	..	..	..	3	..
	2023	10	..	131	..	..	..	..	7	..
Syrian Arab Republic	2020	101	..	627	21	261	..	..	..	13
	2021	10	..	60	2	25	..	..	..	1
	2022	5	..	10	1	13	..	..	..	1
	2023	3	..	20	1	8	..	..	..	0
Tajikistan	2020	..	..	..	..	3	..	..	..	..
	2021	..	..	..	..	3	..	..	..	..
	2022	..	..	..	..	3	..	..	..	..
	2023	..	..	..	..	3	..	..	..	..
Thailand	2020	502	..	*3,279	..	1,376	..	..	..	1,003
	2021	497	..	*3,129	..	1,510	..	..	..	993
	2022	520	..	*6,680	..	1,406	..	..	..	1,040
	2023	539	..	*5,477	..	1,551	..	..	..	*359
Türkiye	2020	1,134	..	1,504	75	2,765	..	1,536	14	2,673
	2021	1,158	..	1,895	139	2,039	..	1,751	2	2,883
	2022	1,536	..	1,904	86	2,466	..	1,753	4	2,454
	2023	1,402	..	1,917	298	2,574	..	1,793	7	2,168
Turkmenistan	2020	101	..	..	..	..	..	..	..	320
	2021	99	..	..	..	..	..	..	..	317
	2022	96	..	..	..	..	..	..	..	325
	2023	93	..	..	..	..	..	..	..	328
United Arab Emirates	2020	347	..	6,424	488	..	..	..	..	3,710
	2021	393	..	7,259	551	..	..	..	..	4,193
	2022	374	..	7,466	567	..	..	..	..	4,312
	2023	394	..	8,546	649	..	..	..	..	*4,300
Uzbekistan	2020	91	..	..	92	89	2	41	8	..
	2021	91	..	..	70	126	2	41	8	75
	2022	98	117	102	2	48	8	66
	2023	119	142	123	3	58	10	80
Viet Nam	2020	1,852
	2021	1,322
	2022	2,101
	2023	542

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Country or area	Year	Refinery gas	Ethane	Naphtha	Lubricants	Bitumen	Paraffin waxes	Petroleum coke	White spirit and SBP	Other oil products
Yemen	2020	..	..	120	..	2	..	..	..	..
	2021	..	..	110	..	2	..	..	..	..
	2022	..	..	114	..	2	..	..	..	..
	2023	..	..	143	..	3	..	..	..	..
Europe	2020	19,751	1,918	67,025	20,429	26,300	999	15,921	2,423	31,049
	2021	20,616	1,952	67,664	21,874	26,200	1,195	16,089	2,774	31,849
	2022	22,454	2,000	64,553	19,760	23,544	854	17,803	2,991	32,659
	2023	21,536	2,066	64,316	18,161	22,949	841	17,155	2,884	29,447
Albania	2020	3	..	18	..	75	..	10	..	15
	2021	3	..	22	..	106	..	..	..	27
	2022	2	..	16	..	69	..	..	..	30
	2023	4	..	11	..	106	..	..	..	48
Austria	2020	284	..	1,051	0	424	..	73	..	45
	2021	296	..	1,087	..	440	..	74	..	46
	2022	389	..	822	..	236	..	56	..	26
	2023	415	..	790	..	400	..	55	..	42
Belarus	2020	644	..	..	..	979	..	..	..	1,293
	2021	644	..	..	..	979	..	..	..	1,293
	2022	575	..	..	..	760	..	..	..	1,216
	2023	575	..	..	..	846	..	..	..	1,264
Belgium	2020	499	..	2,481	..	143	..	825	..	3,171
	2021	610	..	2,552	..	..	..	1,033	..	4,422
	2022	681	..	2,260	..	..	..	972	..	4,139
	2023	745	..	2,415	..	..	..	980	..	4,442
Bosnia and Herzegovina	2020	..	..	..	13	..	..	..	..	..
	2021	..	..	..	13	..	..	..	..	..
	2022	..	..	..	14	..	..	..	..	..
	2023	..	..	..	13	..	..	..	..	..
Bulgaria	2020	324	..	372	..	115	..	58	3	1
	2021	290	..	338	..	157	..	45	3	26
	2022	426	..	543	..	180	..	84	2	53
	2023	382	..	413	..	190	..	75	3	..
Croatia	2020	114	..	36	10	..	..	22	..	86
	2021	99	..	9	9	..	..	24	..	57
	2022	88	..	5	9	..	..	20	..	118
	2023	95	..	6	7	..	..	21	..	159
Czechia	2020	112	..	707	82	451	9	77	..	553
	2021	135	..	888	78	438	10	90	..	594
	2022	129	..	917	28	576	4	82	..	747
	2023	141	..	860	15	616	2	89	..	605
Denmark	2020	308	..	..	..	..	..	..	..	..
	2021	326	..	..	..	..	..	..	..	..
	2022	318	..	..	..	..	..	..	..	..
	2023	317	..	..	..	..	..	..	..	..
Finland	2020	495	..	91	250	271	..	104	152	6
	2021	359	..	32	230	28	..	81	102	0
	2022	471	..	41	245	..	..	103	85	69
	2023	488	..	18	263	..	..	99	59	65
France	2020	905	8	3,324	491	1,560	54	336	35	732
	2021	754	2	3,508	534	1,637	48	282	55	640
	2022	1,113	0	4,255	409	1,496	48	304	67	573
	2023	1,198	6	5,174	360	1,573	38	352	88	574

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Germany	2020	3,538	..	6,820	2,400	3,755	311	1,682	537	1,227
	2021	3,481	..	7,382	2,651	4,108	313	1,727	626	1,335
	2022	3,790	..	7,465	2,017	3,672	269	1,844	640	1,433
	2023	3,357	..	7,323	1,829	3,110	330	1,574	489	1,650
Greece	2020	660	..	2,259	236	1,753	..	489	..	1,345
	2021	738	..	2,094	231	1,475	..	496	..	1,284
	2022	729	..	1,521	200	1,505	..	454	..	1,881
	2023	758	..	1,415	226	1,922	..	471	6	1,508
Hungary	2020	203	..	983	127	410	34	337	19	736
	2021	180	..	1,018	122	413	32	288	28	788
	2022	191	..	881	110	372	30	298	22	721
	2023	206	..	949	110	375	25	276	21	796
Ireland	2020	69	..	89	..	..	..	..	..	..
	2021	70	..	89	..	..	..	..	..	..
	2022	98	..	120	..	..	..	..	..	..
	2023	87	..	30	..	..	..	..	..	..
Italy	2020	2,322	..	3,919	1,013	3,083	96	588	3	2,640
	2021	2,364	..	3,396	1,012	3,017	82	811	2	2,075
	2022	2,625	..	4,181	585	2,520	63	813	8	3,253
	2023	2,687	..	4,693	489	2,020	65	800	2	3,149
Lithuania	2020	247	..	..	88	357	..	102	..	71
	2021	278	..	..	100	288	..	111	..	73
	2022	301	..	114	104	290	..	105	..	65
	2023	354	..	7	97	468	..	115	..	55
Netherlands (Kingd. of the)	2020	1,950	..	10,800	643	637	39	420	467	1,016
	2021	2,190	..	10,555	1,212	739	224	429	405	1,677
	2022	2,329	..	10,085	937	700	..	433	536	1,255
	2023	2,366	..	11,008	1,035	884	..	474	913	765
Norway	2020	406	..	1,417	..	..	..	368	..	..
	2021	424	..	1,395	..	..	..	484	..	..
	2022	328	..	754	..	..	..	415	..	..
	2023	350	..	783	..	..	..	404	..	..
Poland	2020	777	..	2,138	393	1,529	84	293	140	1,476
	2021	851	..	1,857	429	1,401	88	292	129	1,292
	2022	614	..	2,248	474	1,351	51	402	267	1,197
	2023	614	..	1,834	482	1,285	39	500	32	857
Portugal	2020	16	..	953	137	190	6	..	12	688
	2021	36	..	689	54	66	3	..	4	572
	2022	23	..	677	6	..	..	..	..	793
	2023	14	..	930	..	..	..	..	..	610
Romania	2020	726	..	150	..	123	..	768	111	246
	2021	696	..	166	..	93	..	746	107	285
	2022	738	..	185	..	100	..	872	127	232
	2023	685	..	113	..	105	..	764	123	261
Russian Federation	2020	..	*1,910	25,010	13,598	6,797	233	4,328	809	6,033
	2021	..	*1,950	26,043	14,156	7,075	243	4,369	1,169	6,279
	2022	..	*2,000	23,076	13,519	6,757	232	5,210	1,116	5,997
	2023	..	*2,060	21,141	12,386	6,190	213	4,774	1,023	5,494
Serbia	2020	63	..	456	9	398	..	49	..	197
	2021	70	..	540	9	390	..	104	..	166
	2022	98	..	516	10	213	..	195	..	189
	2023	106	..	454	6	188	..	198	..	172

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Slovakia	2020	504	..	534	49	..	351
	2021	556	..	584	54	..	300
	2022	530	..	440	58	..	335
	2023	531	..	575	47	..	277
Spain	2020	1,907	..	1,309	317	1,908	72	3,529	129	3,083
	2021	1,953	..	1,444	308	2,191	76	2,887	144	2,621
	2022	2,705	..	1,679	341	1,716	79	3,434	120	1,662
	2023	2,094	..	1,642	310	1,823	69	3,437	122	1,636
Sweden	2020	570	..	248	227	654	..	11	..	4,094
	2021	929	..	358	311	576	..	71	..	3,608
	2022	847	..	228	334	449	..	60	..	4,070
	2023	776	..	86	300	476	..	70	..	3,333
Switzerland	2020	121	..	15	..	..	..	..	..	28
	2021	102	..	21	..	..	..	..	..	27
	2022	130	..	13	..	..	..	..	..	51
	2023	124	..	7	..	..	..	..	..	47
Ukraine	2020	50	..	..	108	52	..	..	..	448
	2021	51	..	..	130	62	..	..	..	538
	2022	*55	..	..	*130	*62	..	..	..	*730
	2023	..	..	..	..	..	..	..	..	..
United Kingdom	2020	1,933	..	1,844	286	638	60	1,401	7	1,469
	2021	2,134	..	1,599	287	520	78	1,590	1	1,825
	2022	2,134	..	1,511	287	520	78	1,590	1	1,825
	2023	2,066	..	1,639	232	373	60	1,582	2	1,639
Latin America & Carib.	2020	8,248	..	10,000	1,398	4,428	77	8,939	459	5,346
	2021	9,617	..	8,520	1,148	4,113	76	8,644	568	5,908
	2022	9,987	..	9,075	1,283	4,441	73	8,883	537	7,108
	2023	10,219	..	9,189	1,259	4,923	82	9,618	569	6,570
Argentina	2020	876	..	1,157	178	233	8	*1,249	204	..
	2021	897	..	1,097	203	336	10	1,301	200	..
	2022	832	..	1,146	156	223	9	1,279	199	..
	2023	930	..	1,196	110	192	8	1,575	158	..
Bolivia (Plur. State of)	2020	95	..	0	16	1	1	..	..	59
	2021	92	..	0	18	2	0	..	..	53
	2022	89	..	0	17	1	1	..	..	26
	2023	82	..	0	20	1	2	..	..	12
Brazil	2020	4,058	..	4,486	806	2,318	..	4,938	225	2,038
	2021	4,430	..	3,347	534	1,943	..	4,529	333	2,214
	2022	4,456	..	4,201	711	2,485	..	4,669	305	2,201
	2023	4,660	..	4,100	696	2,755	..	4,727	379	2,175
Chile	2020	175	..	60	..	..	..	325	..	690
	2021	192	..	233	..	..	..	410	..	611
	2022	177	..	218	..	..	..	381	..	923
	2023	179	..	313	..	..	..	322	..	1,123
Colombia	2020	254	..	1,509	139	80	37	692	..	657
	2021	541	..	1,509	139	94	37	808	..	769
	2022	541	..	1,509	139	*97	37	1,008	..	769
	2023	558	..	1,509	139	..	37	1,008	..	769
Cuba	2020	14	..	148	36	34	..	4	..	..
	2021	8	..	172	31	29	..	..	..	..
	2022	11	..	68	26	28	..	..	..	..
	2023	4	..	119	12	18	..	..	..	..

Production of minor oil products from refineries - by type

Thousand metric tons

Country or area	Year	Refinery gas	Ethane	Naphtha	Lubricants	Bitumen	Paraffin waxes	Petroleum coke	White spirit and SBP	Other oil products
Dominican Republic	2020	5	..	62	..	..	..	..	..	..
	2021	11	..	145	..	..	..	..	..	..
	2022	11	..	137	..	..	..	..	..	..
	2023	11	..	144	..	..	..	..	..	..
Ecuador	2020	40	..	..	6	159	..	..	20	757
	2021	48	..	..	5	192	..	..	23	829
	2022	57	..	..	5	242	..	..	22	854
	2023	48	..	..	5	228	..	..	21	..
Guatemala	2020	..	..	..	..	95	..	..	..	..
	2021	..	..	..	..	113	..	..	..	..
	2022	..	..	..	..	117	..	..	..	..
	2023	..	..	..	..	100	..	..	..	..
Jamaica	2020	..	..	..	..	11	..	..	..	..
	2021	..	..	..	..	11	..	..	..	..
	2022	..	..	..	..	7	..	..	..	..
	2023	..	..	..	..	14	..	..	..	..
Mexico	2020	2,162	..	1,747	157	1,187	26	1,579	..	95
	2021	2,709	..	1,554	160	1,206	26	1,490	..	113
	2022	2,979	..	1,636	156	1,176	25	1,510	..	673
	2023	2,885	..	1,598	203	1,529	33	1,315	..	756
Nicaragua	2020	24	..	..	..	..	..	..	9	..
	2021	30	..	..	..	..	..	..	10	..
	2022	30	..	..	..	..	..	..	10	..
	2023	32	..	..	..	..	..	..	10	..
Peru	2020	50	..	..	..	..	..	..	..	266
	2021	50	..	..	..	..	..	..	..	385
	2022	97	..	..	..	..	..	..	..	207
	2023	137	..	..	..	..	..	..	..	169
Suriname	2020	..	..	..	..	5	..	..	..	..
	2021	..	..	..	..	*4	..	..	..	..
	2022	..	..	..	..	11	..	..	..	..
	2023	..	..	..	..	13	..	..	..	..
Uruguay	2020	61	..	..	..	39	..	30	2	..
	2021	57	..	..	..	34	..	35	2	..
	2022	58	..	..	..	1	..	31	2	..
	2023	34	..	..	..	4	..	21	2	..
Venezuela (Bolivar. Rep.)	2020	434	..	830	59	268	5	122	..	784
	2021	553	..	464	57	150	3	71	..	934
	2022	649	..	159	73	51	1	6	..	1,454
	2023	660	..	212	74	68	1	651	..	1,567
Northern America	2020	16,574	130	8,222	8,476	24,775	175	52,290	1,435	27,064
	2021	17,355	89	8,233	9,197	26,872	211	52,203	1,356	28,869
	2022	19,059	135	6,700	8,499	26,737	247	54,999	1,417	30,410
	2023	17,581	155	7,112	7,984	25,979	219	54,889	1,276	31,896
Canada	2020	2,991	..	963	602	5,514	..	1,325	66	15,802
	2021	3,081	..	900	532	6,367	..	1,546	14	16,727
	2022	3,181	..	1,315	330	6,274	..	1,536	21	18,319
	2023	3,028	..	1,511	271	6,275	..	1,361	36	20,713
United States	2020	13,583	130	7,258	7,875	19,262	175	50,965	1,370	11,262
	2021	14,274	89	7,333	8,665	20,504	211	50,657	1,342	12,143
	2022	15,878	135	5,385	8,169	20,462	247	53,464	1,397	12,091
	2023	14,552	155	5,602	7,713	19,704	219	53,528	1,240	11,182

Table 24

Production of minor oil products from refineries - by type

Thousand metric tons

Country or area	Year	Refinery gas	Ethane	Naphtha	Lubricants	Bitumen	Paraffin waxes	Petroleum coke	White spirit and SBP	Other oil products
Oceania	2020	897	..	606	..	126	..	177	..	3,081
	2021	749	..	607	..	3	..	88	..	2,877
	2022	578	..	472	..	8	..	96	..	2,055
	2023	398	..	610	..	..	..	..	..	1,941
Australia	2020	713	..	..	..	..	..	177	..	2,552
	2021	627	..	..	..	..	..	88	..	2,581
	2022	532	..	..	..	..	..	96	..	1,991
	2023	398	..	..	..	..	..	..	..	1,941
New Zealand	2020	184	..	..	..	126	..	..	..	509
	2021	122	..	..	..	3	..	..	..	296
	2022	47	..	..	..	8	..	..	..	64
	2023	..	..	..	..	..	..	..	..	..
Papua New Guinea	2020	..	..	606	..	..	..	..	..	20
	2021	..	..	607	..	..	..	..	..	..
	2022	..	..	472	..	..	..	..	..	..
	2023	..	..	*610	..	..	..	..	..	..