

### Production of natural gas liquids – by end use

Thousand metric tons

#### Table Notes

**Production** refers to production of natural gas liquids.

**End-use products** refers to the output of natural gas liquids plants, arranged by product. **Net imports** refers to imports minus exports. **Inputs of NGLs to refineries** refers to quantities of natural gas liquids that are transformed in oil refineries. Data may not add up due to statistical differences or the presence of other natural gas liquid flows such as stock changes, transfers or energy industries own use.

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 69: Production of natural gas liquids by region, 1990-2022

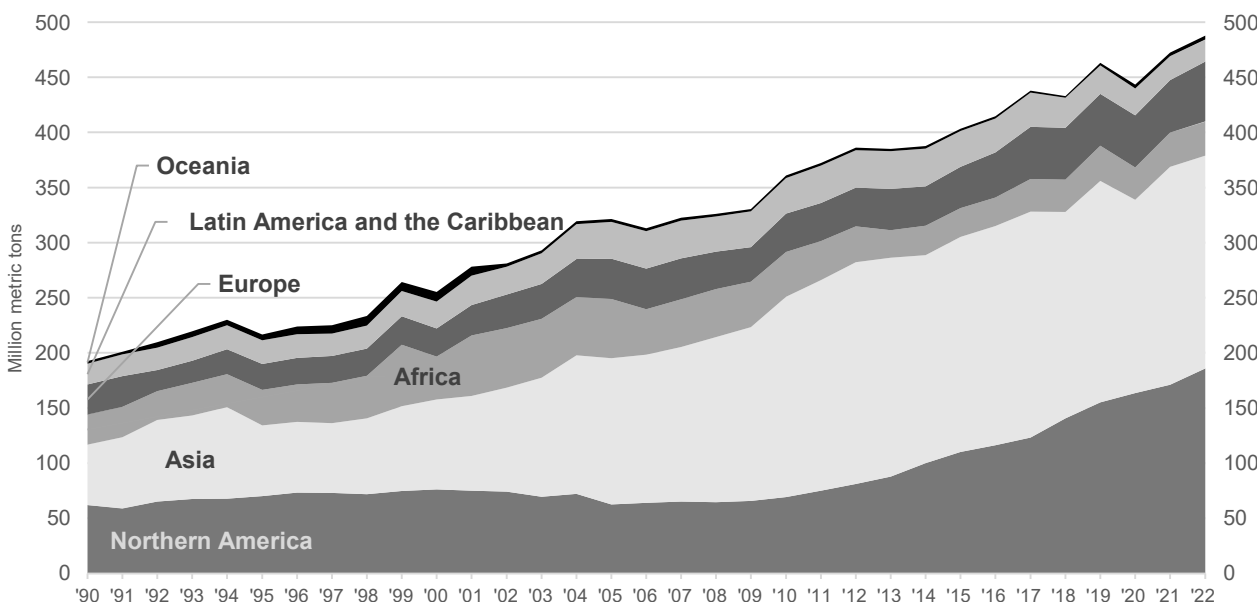


Figure 70: Production of natural gas liquids by end-use product, 2022

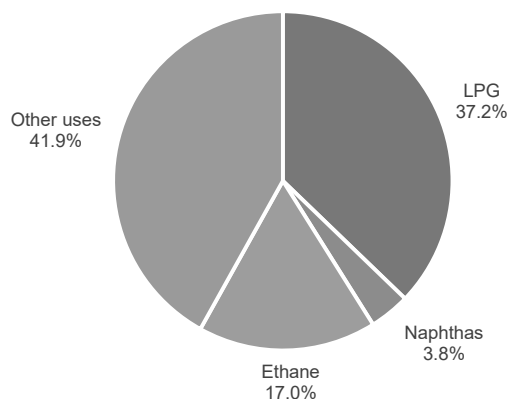


Table 27

## Production of natural gas liquids - by end use

Thousand metric tons

Country or area	Year	Total production	End-use products				Net imports	Inputs of NGLs to refineries
			LPG	Naphthas	Ethane	Other products		
World	2019	463,128	163,979	16,089	75,709	7,727	-44,992	113,743
	2020	443,292	166,840	14,956	79,527	6,816	-42,974	112,993
	2021	472,380	167,156	16,672	80,330	8,082	-55,976	108,506
	2022	487,812	181,527	18,776	83,145	10,676	-48,019	126,149
Africa	2019	32,169	12,919	240	..	..	-13,175	3,705
	2020	29,264	12,455	190	..	..	-10,568	4,285
	2021	31,055	12,930	216	..	..	-12,136	4,360
	2022	30,943	13,055	211	..	..	-11,183	4,990
Algeria	2019	16,517	8,259	107	..	..	-4,374	3,650
	2020	15,444	7,741	96	..	..	-3,253	4,231
	2021	16,076	8,285	95	..	..	-3,145	4,305
	2022	16,834	8,728	100	..	..	-2,989	4,899
Angola	2019	*2,818	2,358	..	..	..	*-429	..
	2020	*2,827	2,337	..	..	..	*-477	..
	2021	*2,411	2,010	..	..	..	*-377	..
	2022	*2,089	1,738	..	..	..	*-343	..
Cameroon	2019	24	24	..	..	..	..	..
	2020	25	25	..	..	..	..	..
	2021	35	35	..	..	..	..	..
	2022	28	28	..	..	..	..	..
Congo	2019	301	..	..	..	..	-276	25
	2020	301	..	..	..	..	-277	24
	2021	301	..	..	..	..	-276	25
	2022	301	..	..	..	..	-274	26
Côte d'Ivoire	2019	6	6	..	..	..	..	..
	2020	6	6	..	..	..	..	..
	2021	43	43	..	..	..	..	..
	2022	37	3	..	..	..	..	*34
Egypt	2019	3,218	1,153	..	..	..	-418	..
	2020	2,875	1,174	..	..	..	-287	..
	2021	2,656	1,174	..	..	..	-261	..
	2022	2,932	1,174	..	..	..	-255	..
Equatorial Guinea	2019	528	528	..	..	..	..	..
	2020	478	478	..	..	..	..	..
	2021	376	376	..	..	..	..	..
	2022	409	409	..	..	..	..	..
Ghana	2019	66	66	..	..	..	..	..
	2020	84	84	..	..	..	..	..
	2021	93	93	..	..	..	..	..
	2022	*111	111	..	..	..	..	..
Libya	2019	3,570	423	133	..	..	-3,014	..
	2020	1,734	381	94	..	..	-1,259	..
	2021	3,843	415	121	..	..	-3,307	..
	2022	3,573	407	111	..	..	-3,056	..
Mozambique	2019	7	..	..	..	..	-7	..
	2020	6	..	..	..	..	-6	..
	2021	6	..	..	..	..	-6	..
	2022	352	..	..	..	..	-345	..
Nigeria	2019	4,943	..	..	..	..	-4,623	..
	2020	5,314	136	..	..	..	-4,969	..
	2021	5,034	406	..	..	..	-4,708	..
	2022	4,144	406	..	..	..	-3,876	..

Table 27

## Production of natural gas liquids - by end use

Thousand metric tons

Country or area	Year	Total production	End-use products				Net imports	Inputs of NGLs to refineries
			LPG	Naphthas	Ethane	Other products		
South Africa	2019	30	..	..	..	..	..	30
	2020	30	..	..	..	..	..	30
	2021	30	..	..	..	..	..	30
	2022	30	..	..	..	..	..	30
Tunisia	2019	142	102	..	..	..	-34	..
	2020	140	93	..	..	..	-39	..
	2021	151	93	..	..	..	-56	..
	2022	101	50	..	..	..	-46	..
<b>Asia</b>	<b>2019</b>	<b>200,722</b>	<b>71,098</b>	<b>15,005</b>	<b>31,587</b>	<b>178</b>	<b>-23,361</b>	<b>47,989</b>
	<b>2020</b>	<b>175,358</b>	<b>68,867</b>	<b>13,917</b>	<b>31,997</b>	<b>175</b>	<b>-27,086</b>	<b>47,214</b>
	<b>2021</b>	<b>197,842</b>	<b>67,680</b>	<b>15,643</b>	<b>30,019</b>	<b>60</b>	<b>-33,281</b>	<b>43,267</b>
	<b>2022</b>	<b>193,046</b>	<b>74,481</b>	<b>17,537</b>	<b>28,585</b>	<b>178</b>	<b>-29,194</b>	<b>52,729</b>
Azerbaijan	2019	3,904	12	20	..	..	-3,534	338
	2020	4,199	14	23	..	..	-3,544	619
	2021	5,343	13	23	..	..	-4,192	1,115
	2022	5,014	11	23	..	..	-4,407	573
Bahrain	2019	651	..	..	..	..	-693	..
	2020	636	..	..	..	..	-627	..
	2021	520	..	..	..	..	-505	..
	2022	553	..	..	..	..	-552	..
Bangladesh	2019	392	7	..	..	178	..	182
	2020	361	5	..	..	175	..	156
	2021	405	1	..	..	60	..	334
	2022	416	1	..	..	178	..	214
Brunei Darussalam	2019	524	18	..	..	..	-406	85
	2020	432	18	..	..	..	-388	27
	2021	382	17	..	..	..	-365	..
	2022	359	16	..	..	..	-342	..
India	2019	*4,763	*2,100	*1,280	..	..	..	*1,383
	2020	*4,212	*1,859	975	..	..	..	*1,378
	2021	4,051	*1,649	*971	..	..	..	*1,425
	2022	*3,543	*1,717	*831	..	..	..	*995
Indonesia	2019	*1,164	1,140	..	..	..	1,583	..
	2020	1,063	1,024	..	..	..	..	..
	2021	*1,039	1,039	..	..	..	..	..
	2022	*1,085	1,085	..	..	..	138	2,509
Iran (Islamic Rep. of)	2019	7,992	6,524	..	6,645	..	..	2,589
	2020	8,340	6,718	..	7,024	..	..	2,702
	2021	8,744	8,750	..	5,658	..	..	2,833
	2022	9,101	9,729	..	5,266	..	..	2,949
Iraq	2019	2,019	1,573	..	..	..	..	447
	2020	1,977	1,540	..	..	..	..	437
	2021	2,076	1,617	..	..	..	..	459
	2022	2,170	1,690	..	..	..	..	480
Japan	2019	198	..	..	..	..	2,232	2,390
	2020	185	..	..	..	..	1,232	1,415
	2021	180	..	..	..	..	311	403
	2022	163	..	..	..	..	176	305
Kazakhstan	2019	11,912	1,552	..	..	..	-10,360	..
	2020	12,649	1,571	..	..	..	-11,078	..
	2021	12,691	1,195	..	..	1	*-11,495	..
	2022	13,474	1,832	..	..	..	*-11,460	..

Table 27

## Production of natural gas liquids - by end use

Thousand metric tons

Country or area	Year	Total production	End-use products				Net imports	Inputs of NGLs to refineries
			LPG	Naphthas	Ethane	Other products		
Kuwait	2019	8,026	5,871	..	2,155	..	..	
	2020	8,403	6,248	..	2,155	..	..	
	2021	7,070	5,106	..	1,964	..	..	
	2022	12,052	6,203	..	2,291	..	1,126	
Malaysia	2019	1,937	1,937	..	..	..	..	
	2020	1,837	1,837	..	..	..	..	
	2021	1,114	1,114	..	..	..	..	
	2022	1,629	1,629	..	..	..	..	
Myanmar	2019	13	7	4	..	..	..	
	2020	5	..	*5	..	..	..	
	2021	5	..	5	..	..	..	
	2022	5	..	8	..	..	..	
Oman	2019	281	281	..	..	..	..	
	2020	216	216	..	..	..	..	
	2021	189	215	..	..	..	..	
	2022	210	200	..	..	..	..	
Pakistan	2019	255	255	..	..	..	..	
	2020	277	277	..	..	..	..	
	2021	284	284	..	..	..	..	
	2022	441	441	..	..	..	..	
Qatar	2019	37,615	6,279	..	2,793	..	-15,795	12,748
	2020	38,508	5,757	..	2,618	..	-16,675	13,458
	2021	39,571	6,036	..	2,635	..	-17,099	13,801
	2022	39,749	6,238	..	2,714	..	-17,043	13,755
Saudi Arabia	2019	76,068	26,872	9,533	*12,913	..	0	7,871
	2020	50,315	25,267	8,631	*12,778	..	-157	7,559
	2021	69,268	24,071	8,588	*12,597	..	*-5,000	*1,819
	2022	56,665	27,202	8,782	12,669	..	-696	7,316
Syrian Arab Republic	2019	86	86	..	..	..	..	..
	2020	95	95	..	..	..	..	..
	2021	95	95	..	..	..	..	..
	2022	95	95	..	..	..	..	..
Thailand	2019	7,666	3,909	..	3,128	..	-37	1,065
	2020	6,815	3,383	..	2,870	..	-39	954
	2021	6,872	3,469	..	2,848	..	-17	945
	2022	5,148	2,938	..	1,769	..	-1	787
Turkmenistan	2019	1,015	854	..	..	..	..	162
	2020	968	929	..	..	..	..	154
	2021	981	940	..	..	..	..	156
	2022	1,088	1,030	..	..	..	..	173
United Arab Emirates	2019	29,919	11,104	4,168	3,953	..	4,929	16,408
	2020	30,186	11,409	4,283	4,552	..	5,011	16,218
	2021	33,598	11,409	6,056	4,317	..	5,851	18,042
	2022	37,132	11,409	7,893	3,875	..	5,044	19,660
Uzbekistan	2019	2,310	..	..	..	..	11	2,321
	2020	2,028	..	..	..	..	108	2,136
	2021	*1,824	..	..	..	..	*110	*1,934
	2022	1,287	..	..	..	..	*600	*1,887
Viet Nam	2019	391	391	..	..	..	..	..
	2020	392	372	..	..	..	..	..
	2021	360	360	..	..	..	..	..
	2022	763	763	..	..	..	..	..

## Production of natural gas liquids - by end use

Thousand metric tons

Country or area	Year	Total production	End-use products				Net imports	Inputs of NGLs to refineries
			LPG	Naphthas	Ethane	Other products		
Yemen	2019	328	328	..	..	..	..	
	2020	329	329	..	..	..	..	
	2021	301	301	..	..	..	..	
	2022	252	252	..	..	..	..	
<b>Europe</b>	<b>2019</b>	<b>47,025</b>	<b>6,395</b>	<b>843</b>	<b>1,834</b>	<b>190</b>	<b>3,297</b>	<b>36,404</b>
	<b>2020</b>	<b>47,528</b>	<b>6,336</b>	<b>807</b>	<b>1,707</b>	<b>4</b>	<b>5,348</b>	<b>38,330</b>
	<b>2021</b>	<b>47,665</b>	<b>5,291</b>	<b>771</b>	<b>1,314</b>	<b>4</b>	<b>3,089</b>	<b>38,688</b>
	<b>2022</b>	<b>54,376</b>	<b>4,669</b>	<b>986</b>	<b>544</b>	<b>4</b>	<b>6,101</b>	<b>49,169</b>
Austria	2019	16	..	..	..	..	..	16
	2020	14	..	..	..	..	..	14
	2021	11	..	..	..	..	..	11
	2022	11	..	..	..	..	..	11
Belarus	2019	102	98	..	..	4	..	..
	2020	107	103	..	..	4	..	..
	2021	107	103	..	..	4	..	..
	2022	107	104	..	..	4	..	..
Croatia	2019	59	40	..	..	..	..	13
	2020	51	34	17	..	..	..	..
	2021	50	33	17	..	..	..	..
	2022	46	30	16	..	..	..	..
Finland	2019	..	..	..	..	..	549	673
	2020	..	..	..	..	..	647	665
	2021	..	..	..	..	..	587	619
	2022	..	..	..	..	..	713	754
France	2019	..	..	..	..	186	186	..
	2020	..	..	..	..	..	..	..
	2021	..	..	..	..	..	24	..
	2022	..	..	..	..	..	6	..
Hungary	2019	184	43	..	..	..	..	137
	2020	145	35	..	..	..	..	110
	2021	168	39	..	..	..	..	124
	2022	163	28	..	..	..	..	130
Italy	2019	..	..	..	..	..	..	..
	2020	10	..	..	..	..	..	10
	2021	10	..	..	..	..	..	10
	2022	10	..	..	..	..	..	10
Montenegro	2019	..	..	..	..	..	5	..
	2020	..	..	..	..	..	4	..
	2021	..	..	..	..	..	4	..
	2022	..	..	..	..	..	..	..
Netherlands (Kingd. of the)	2019	132	..	..	..	..	4,759	2,365
	2020	112	..	..	..	..	6,502	3,606
	2021	98	..	..	..	..	4,617	2,021
	2022	92	..	..	..	..	7,170	3,748
Norway	2019	9,061	5,309	843	1,098	..	..	..
	2020	8,759	5,073	789	1,012	..	..	..
	2021	7,699	4,340	754	715	..	..	..
	2022	6,179	3,520	970	178	..	..	..
Romania	2019	129	..	..	..	..	-30	78
	2020	123	..	..	..	..	-27	70
	2021	123	..	..	..	..	-27	87
	2022	112	..	..	..	..	-22	68

Table 27

## Production of natural gas liquids - by end use

Thousand metric tons

Country or area	Year	Total production	End-use products				Net imports	Inputs of NGLs to refineries
			LPG	Naphthas	Ethane	Other products		
Russian Federation	2019	33,431	..	..	..	..	-1,838	31,589
	2020	34,099	..	..	..	..	-1,709	32,386
	2021	36,001	..	..	..	..	-1,509	34,492
	2022	44,133	..	..	..	..	-1,555	42,567
Serbia	2019	31	..	..	..	..	31	61
	2020	32	..	..	..	..	23	54
	2021	28	..	..	..	..	27	53
	2022	26	..	..	..	..	26	53
Slovakia	2019	2	..	..	..	..	..	2
	2020	2	..	..	..	..	..	2
	2021	2	..	..	..	..	..	2
	2022	1	..	..	..	..	..	1
Ukraine	2019	735	..	..	..	..	1	737
	2020	746	..	..	..	..	..	746
	2021	744	..	..	..	..	..	738
	2022	679	..	..	..	..	..	*674
United Kingdom	2019	3,144	905	..	736	..	-366	733
	2020	3,327	1,092	..	695	..	-92	667
	2021	2,625	776	..	599	..	-633	530
	2022	2,817	987	..	366	..	-237	1,153
<b>Latin America &amp; Carib.</b>	<b>2019</b>	<b>25,816</b>	<b>9,740</b>	<b>0</b>	<b>2,667</b>	<b>3,209</b>	<b>-286</b>	<b>6,541</b>
	<b>2020</b>	<b>24,271</b>	<b>8,960</b>	<b>0</b>	<b>2,851</b>	<b>3,081</b>	<b>-291</b>	<b>5,488</b>
	<b>2021</b>	<b>21,724</b>	<b>8,929</b>	..	<b>2,439</b>	<b>2,999</b>	<b>-275</b>	<b>4,529</b>
	<b>2022</b>	<b>19,925</b>	<b>9,083</b>	..	<b>1,909</b>	<b>3,508</b>	<b>-307</b>	<b>4,393</b>
Argentina	2019	4,106	1,995	..	1,074	..	-270	767
	2020	*4,129	1,723	..	1,379	..	-277	750
	2021	4,218	1,928	..	1,296	..	-255	739
	2022	4,063	2,107	..	958	..	-296	702
Belize	2019	*1	1	..	..	..	..	..
	2020	1	1	..	..	..	..	..
	2021	..	..	..	..	..	..	..
	2022	..	..	..	..	..	..	..
Bolivia (Plur. State of)	2019	1,034	469	..	..	..	-16	549
	2020	977	433	..	..	..	-14	530
	2021	1,111	506	..	..	..	-20	585
	2022	1,068	516	..	..	..	-11	541
Brazil	2019	5,735	1,288	0	..	1,120	..	1,764
	2020	6,142	1,293	0	..	1,147	..	1,546
	2021	5,255	1,306	..	..	1,157	..	810
	2022	3,369	1,282	..	..	1,176	..	911
Chile	2019	307	..	..	..	..	..	..
	2020	285	..	..	..	..	..	..
	2021	254	..	..	..	..	..	..
	2022	277	..	..	..	..	..	..
Colombia	2019	376	376	..	..	0	..	..
	2020	442	442	..	..	..	..	..
	2021	447	447	..	..	..	..	..
	2022	458	458	..	..	..	..	..
Ecuador	2019	*164	91	..	..	64	..	9
	2020	*151	79	..	..	64	..	8
	2021	*171	95	..	..	68	..	7
	2022	*130	64	..	..	51	..	15

## Production of natural gas liquids - by end use

Thousand metric tons

Country or area	Year	Total production	End-use products				Net imports	Inputs of NGLs to refineries
			LPG	Naphthas	Ethane	Other products		
Mexico	2019	6,218	3,047	..	1,593	..	..	1,486
	2020	5,875	2,873	..	1,472	..	..	1,420
	2021	4,802	2,503	..	1,143	..	..	1,087
	2022	4,527	2,415	..	951	..	..	810
Peru	2019	3,411	1,262	..	..	1,534	..	..
	2020	3,350	1,273	..	..	1,494	..	..
	2021	*2,756	1,313	..	..	1,443	..	..
	2022	*3,034	1,180	..	..	1,854	..	..
Trinidad and Tobago	2019	801	436	..	..	408	..	..
	2020	673	360	..	..	350	..	..
	2021	574	303	..	..	305	..	..
	2022	888	499	..	..	390	..	..
Venezuela (Bolivar. Rep.)	2019	3,662	775	..	..	83	..	1,966
	2020	2,246	483	..	..	26	..	1,234
	2021	2,136	528	..	..	25	..	1,301
	2022	2,111	562	..	..	37	..	1,415
<b>Northern America</b>	<b>2019</b>	<b>155,114</b>	<b>61,544</b>	<b>..</b>	<b>39,621</b>	<b>4,150</b>	<b>-11,466</b>	<b>19,104</b>
	<b>2020</b>	<b>163,441</b>	<b>66,835</b>	<b>..</b>	<b>42,973</b>	<b>3,556</b>	<b>-10,376</b>	<b>17,677</b>
	<b>2021</b>	<b>170,974</b>	<b>69,250</b>	<b>..</b>	<b>46,557</b>	<b>5,018</b>	<b>-13,374</b>	<b>17,662</b>
	<b>2022</b>	<b>185,955</b>	<b>76,715</b>	<b>..</b>	<b>52,108</b>	<b>6,986</b>	<b>-13,436</b>	<b>14,868</b>
Canada	2019	18,587	..	..	..	..	-4,719	2,440
	2020	18,042	..	..	..	..	-2,792	2,590
	2021	18,426	..	..	..	..	-5,627	2,559
	2022	19,577	..	..	..	..	-6,675	2,992
United States	2019	136,527	61,544	..	39,621	4,150	-6,748	16,664
	2020	145,399	66,835	..	42,973	3,556	-7,584	15,086
	2021	152,548	69,250	..	46,557	5,018	-7,747	15,104
	2022	166,378	76,715	..	52,108	6,986	-6,761	11,877
<b>Oceania</b>	<b>2019</b>	<b>2,282</b>	<b>2,282</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>
	<b>2020</b>	<b>3,430</b>	<b>3,387</b>	<b>43</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>
	<b>2021</b>	<b>3,120</b>	<b>3,077</b>	<b>43</b>	<b>..</b>	<b>..</b>	<b>0</b>	<b>..</b>
	<b>2022</b>	<b>3,567</b>	<b>3,524</b>	<b>43</b>	<b>..</b>	<b>..</b>	<b>0</b>	<b>..</b>
Australia	2019	2,120	2,120	..	..	..	..	..
	2020	3,226	3,226	..	..	..	..	..
	2021	2,926	2,926	..	..	..	..	..
	2022	3,368	3,368	..	..	..	..	..
New Zealand	2019	163	163	..	..	..	..	..
	2020	161	161	..	..	..	..	..
	2021	151	151	..	..	..	0	..
	2022	156	156	..	..	..	0	..
Papua New Guinea	2019	..	..	..	..	..	..	..
	2020	43	..	43	..	..	..	..
	2021	43	..	43	..	..	..	..
	2022	*43	..	*43	..	..	..	..