

**Table 30****Production of manufactured and recovered gases - by type**

Terajoules

**Table Notes**

**Production** refers to gasworks gas, coke oven gas, blast furnace gas and other recovered gases.

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.

## Production of manufactured and recovered gases - by type

Terajoules

Country or area	Year	Total	Gas works gas	Coke oven gas	Blast furnace gas	Other recovered gas
<b>World</b>	<b>2020</b>	<b>11,118,031</b>	<b>1,045,626</b>	<b>3,369,760</b>	<b>6,528,544</b>	<b>174,101</b>
	<b>2021</b>	<b>11,352,417</b>	<b>1,048,344</b>	<b>3,471,039</b>	<b>6,650,543</b>	<b>182,491</b>
	<b>2022</b>	<b>11,834,546</b>	<b>1,179,698</b>	<b>3,959,118</b>	<b>6,527,120</b>	<b>168,611</b>
	<b>2023</b>	<b>12,513,829</b>	<b>1,278,815</b>	<b>4,370,309</b>	<b>6,702,575</b>	<b>162,130</b>
<b>Africa</b>	<b>2020</b>	<b>45,549</b>	<b>16,348</b>	<b>12,484</b>	<b>16,717</b>	<b>..</b>
	<b>2021</b>	<b>64,400</b>	<b>21,661</b>	<b>20,147</b>	<b>22,592</b>	<b>..</b>
	<b>2022</b>	<b>49,640</b>	<b>21,175</b>	<b>12,553</b>	<b>15,912</b>	<b>..</b>
	<b>2023</b>	<b>66,880</b>	<b>26,858</b>	<b>18,914</b>	<b>21,109</b>	<b>..</b>
Algeria	2020	2,564	..	..	2,564	..
	2021	4,624	..	..	4,624	..
	2022	2,924	..	..	2,924	..
	2023	3,140	..	..	3,140	..
Egypt	2020	4,152	15	..	4,137	..
	2021	4,137	..	..	4,137	..
	2022	4,213	76	..	4,137	..
	2023	4,161	24	..	4,137	..
South Africa	2020	37,533	16,333	11,184	10,016	..
	2021	50,937	21,661	15,445	13,832	..
	2022	40,375	21,099	10,425	8,851	..
	2023	56,114	26,834	15,448	13,832	..
Zimbabwe	2020	1,300	..	1,300	..	..
	2021	4,702	..	4,702	..	..
	2022	2,128	..	2,128	..	..
	2023	3,466	..	3,466	..	..
<b>Asia</b>	<b>2020</b>	<b>9,268,980</b>	<b>959,883</b>	<b>2,579,934</b>	<b>5,620,950</b>	<b>108,213</b>
	<b>2021</b>	<b>9,346,536</b>	<b>967,236</b>	<b>2,618,332</b>	<b>5,643,226</b>	<b>117,742</b>
	<b>2022</b>	<b>9,972,773</b>	<b>1,100,492</b>	<b>3,187,379</b>	<b>5,579,009</b>	<b>105,893</b>
	<b>2023</b>	<b>10,684,501</b>	<b>1,206,192</b>	<b>3,597,040</b>	<b>5,777,777</b>	<b>103,491</b>
China	2020	7,276,481	930,834	1,857,822	4,487,825	..
	2021	7,171,378	938,479	1,868,040	4,364,859	..
	2022	7,900,615	1,071,879	2,457,461	4,371,275	..
	2023	8,517,102	1,177,995	2,848,058	4,491,048	..
China, Hong Kong SAR	2020	27,947	27,947	..	..	..
	2021	27,677	27,677	..	..	..
	2022	27,398	27,398	..	..	..
	2023	27,125	27,125	..	..	..
India	2020	*587,392	*1,102	*188,003	*398,287	..
	2021	*666,318	*1,080	*216,252	*448,986	..
	2022	*689,751	*1,215	*222,356	*466,180	..
	2023	821,625	1,072	266,695	553,858	..
Iran (Islamic Rep. of)	2020	25,620	..	10,072	15,548	..
	2021	29,167	..	11,103	18,064	..
	2022	28,779	..	10,478	18,301	..
	2023	29,321	..	11,020	18,301	..
Japan	2020	646,861	..	266,508	331,130	49,224
	2021	718,600	..	264,320	399,269	55,011
	2022	653,948	..	250,453	353,134	50,361
	2023	630,733	..	236,081	349,370	45,281
Kazakhstan	2020	32,370	..	12,135	20,234	..
	2021	30,688	..	11,317	19,371	..
	2022	30,004	..	12,623	17,381	..
	2023	28,234	..	11,260	16,973	..

Table 30

## Production of manufactured and recovered gases - by type

Terajoules

Country or area	Year	Total	Gas works gas	Coke oven gas	Blast furnace gas	Other recovered gas
Korea, Dem.Ppl's.Rep.	2020	1,067	..	..	1,067	..
	2021	902	..	..	902	..
	2022	436	..	..	436	..
	2023	524	..	..	524	..
Korea, Republic of	2020	412,265	..	143,935	220,893	47,437
	2021	423,938	..	147,097	227,058	49,783
	2022	385,428	..	135,949	205,348	44,132
	2023	395,218	..	136,233	211,054	47,931
Malaysia	2020	17,342	..	..	17,342	..
	2021	17,481	..	..	17,481	..
	2022	18,446	..	..	18,446	..
	2023	19,107	..	..	19,107	..
Other Asia	2020	153,332	..	65,159	76,621	11,552
	2021	163,528	..	66,942	83,639	12,947
	2022	148,350	..	63,944	73,006	11,400
	2023	132,469	..	57,232	64,957	10,279
Syrian Arab Republic	2020	3	..	..	3	..
	2021	3	..	..	3	..
	2022	..	..	..	..	..
	2023	..	..	..	..	..
Türkiye	2020	88,300	..	36,300	52,000	..
	2021	96,855	..	33,261	63,594	..
	2022	89,618	..	34,116	55,503	..
	2023	83,045	..	30,460	52,584	..
<b>Europe</b>	<b>2020</b>	<b>1,393,400</b>	<b>11,969</b>	<b>593,665</b>	<b>722,150</b>	<b>65,617</b>
	<b>2021</b>	<b>1,497,136</b>	<b>2,646</b>	<b>628,660</b>	<b>801,372</b>	<b>64,457</b>
	<b>2022</b>	<b>1,320,295</b>	<b>2,638</b>	<b>569,476</b>	<b>699,699</b>	<b>48,482</b>
	<b>2023</b>	<b>1,306,908</b>	<b>2,580</b>	<b>582,385</b>	<b>676,676</b>	<b>45,268</b>
Austria	2020	39,647	..	10,217	25,967	3,462
	2021	44,332	..	10,250	30,007	4,075
	2022	40,961	..	9,721	27,467	3,773
	2023	40,201	..	9,888	26,712	3,600
Belgium	2020	30,070	..	8,921	18,252	2,896
	2021	35,248	..	10,347	21,796	3,106
	2022	36,549	..	10,671	22,167	3,711
	2023	32,597	..	10,410	19,177	3,009
Bosnia and Herzegovina	2020	10,020	..	6,285	3,735	..
	2021	10,762	..	6,810	3,952	..
	2022	10,955	..	6,482	4,473	..
	2023	9,563	..	5,923	3,640	..
Czechia	2020	49,358	9,358	18,243	17,847	3,910
	2021	44,913	..	20,860	20,140	3,914
	2022	40,334	..	18,783	17,680	3,872
	2023	32,548	..	15,075	13,781	3,692
Estonia	2020	13,707	2,610	11,096	..	..
	2021	12,252	2,646	9,606	..	..
	2022	11,503	2,638	8,865	..	..
	2023	12,373	2,580	9,793	..	..
Finland	2020	20,136	..	7,095	9,048	3,993
	2021	23,853	..	7,584	12,183	4,086
	2022	20,001	..	7,498	9,121	3,382
	2023	20,945	..	7,473	10,349	3,123

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Terajoules

Country or area	Year	Total	Gas works gas	Coke oven gas	Blast furnace gas	Other recovered gas
France	2020	62,309	..	..	62,309	..
	2021	72,964	..	..	72,964	..
	2022	66,473	..	..	66,473	..
	2023	54,374	..	..	54,374	..
Germany	2020	209,468	..	62,418	125,509	21,542
	2021	227,243	..	60,225	145,434	21,584
	2022	214,832	..	57,660	135,260	21,912
	2023	228,654	..	63,075	144,857	20,722
Hungary	2020	13,787	..	7,386	6,401	..
	2021	11,174	..	7,024	4,150	..
	2022	7,801	..	4,619	3,182	..
	2023	3,035	..	1,674	1,361	..
Italy	2020	23,857	..	11,506	10,825	1,526
	2021	27,704	..	11,906	14,764	1,034
	2022	22,191	..	9,490	11,772	929
	2023	17,397	..	9,322	7,490	585
Netherlands (Kingd. of the)	2020	48,690	..	17,093	31,597	..
	2021	53,550	..	17,038	36,512	..
	2022	52,949	..	16,954	35,994	..
	2023	43,816	..	16,685	27,132	..
Norway	2020	3,064	..	..	3,064	..
	2021	3,565	..	..	3,565	..
	2022	4,106	..	..	4,106	..
	2023	3,663	..	..	3,663	..
Poland	2020	88,378	..	65,419	19,443	3,516
	2021	101,193	..	78,034	20,336	2,823
	2022	91,322	..	70,092	17,941	3,289
	2023	86,180	..	67,355	15,880	2,945
Romania	2020	9,743	..	..	9,743	..
	2021	10,757	..	..	10,757	..
	2022	8,220	..	..	8,220	..
	2023	3,694	..	..	3,694	..
Russian Federation	2020	481,713	..	261,111	220,602	..
	2021	496,967	..	268,806	228,161	..
	2022	491,313	..	272,480	218,833	..
	2023	526,423	..	296,373	230,049	..
Serbia	2020	8,310	..	..	8,310	..
	2021	8,640	..	..	8,640	..
	2022	8,328	..	..	8,328	..
	2023	7,621	..	..	7,621	..
Slovakia	2020	27,117	..	9,640	14,880	2,597
	2021	38,780	..	12,490	22,473	3,817
	2022	33,339	..	11,594	18,764	2,981
	2023	37,948	..	11,903	22,631	3,414
Spain	2020	18,514	..	5,513	13,001	..
	2021	29,037	..	11,085	17,952	..
	2022	28,196	..	13,062	15,134	..
	2023	25,450	..	11,749	13,701	..
Sweden	2020	21,473	..	7,926	11,922	1,625
	2021	20,771	..	6,964	12,553	1,254
	2022	20,927	..	8,151	11,796	980
	2023	21,039	..	8,070	12,207	762

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Country or area	Year	Total	Gas works gas	Coke oven gas	Blast furnace gas	Other recovered gas
Ukraine	2020	168,217	..	71,040	76,627	20,550
	2021	175,393	..	77,827	78,801	18,765
	2022	67,741	..	31,925	32,161	3,655
	2023	63,388	..	29,914	30,058	3,416
United Kingdom	2020	45,822	..	12,755	33,067	..
	2021	48,036	..	11,806	36,231	..
	2022	42,254	..	11,428	30,826	..
	2023	35,999	..	7,702	28,297	..
<b>Latin America &amp; Carib.</b>	<b>2020</b>	<b>130,649</b>	<b>3,300</b>	<b>85,037</b>	<b>42,312</b>	<b>..</b>
	<b>2021</b>	<b>145,682</b>	<b>3,272</b>	<b>98,091</b>	<b>44,319</b>	<b>..</b>
	<b>2022</b>	<b>220,089</b>	<b>3,187</b>	<b>93,865</b>	<b>109,054</b>	<b>13,982</b>
	<b>2023</b>	<b>192,025</b>	<b>3,079</b>	<b>80,277</b>	<b>95,550</b>	<b>13,120</b>
Argentina	2020	24,070	..	3,592	20,478	..
	2021	29,117	..	4,415	24,701	..
	2022	31,625	..	5,212	26,413	..
	2023	31,540	..	4,876	26,664	..
Brazil	2020	67,308	..	67,308	..	..
	2021	78,939	..	78,939	..	..
	2022	152,197	..	74,718	63,497	13,982
	2023	144,595	..	71,074	60,401	13,120
Chile	2020	7,048	..	3,676	3,372	..
	2021	7,469	37	3,831	3,601	..
	2022	6,590	..	3,277	3,314	..
	2023	6,809	..	3,607	3,201	..
Colombia	2020	1,583	..	762	821	..
	2021	1,725	..	831	895	..
	2022	1,795	..	891	904	..
	2023	1,647	..	719	928	..
Cuba	2020	3,311	3,300	..	11	..
	2021	3,249	3,235	..	14	..
	2022	3,202	3,187	..	15	..
	2023	3,093	3,079	..	14	..
Mexico	2020	27,330	..	9,700	17,630	..
	2021	25,184	..	10,076	15,108	..
	2022	24,679	..	9,767	14,912	..
	2023	4,342	..	..	4,342	..
<b>Northern America</b>	<b>2020</b>	<b>230,943</b>	<b>54,087</b>	<b>73,018</b>	<b>103,838</b>	<b>..</b>
	<b>2021</b>	<b>248,945</b>	<b>53,482</b>	<b>80,029</b>	<b>115,434</b>	<b>..</b>
	<b>2022</b>	<b>224,285</b>	<b>52,159</b>	<b>71,809</b>	<b>100,317</b>	<b>..</b>
	<b>2023</b>	<b>219,120</b>	<b>40,052</b>	<b>69,814</b>	<b>109,255</b>	<b>..</b>
Canada	2020	42,243	..	22,789	19,454	..
	2021	42,221	..	19,163	23,058	..
	2022	37,888	..	16,531	21,357	..
	2023	39,107	..	16,690	22,417	..
United States	2020	188,700	54,087	50,229	84,384	..
	2021	206,724	53,482	60,866	92,376	..
	2022	186,397	52,159	55,278	78,960	..
	2023	180,013	40,052	53,124	86,838	..
<b>Oceania</b>	<b>2020</b>	<b>48,510</b>	<b>39</b>	<b>25,623</b>	<b>22,577</b>	<b>271</b>
	<b>2021</b>	<b>49,718</b>	<b>47</b>	<b>25,780</b>	<b>23,599</b>	<b>292</b>
	<b>2022</b>	<b>47,465</b>	<b>46</b>	<b>24,036</b>	<b>23,129</b>	<b>254</b>
	<b>2023</b>	<b>44,394</b>	<b>54</b>	<b>21,881</b>	<b>22,209</b>	<b>251</b>

## Production of manufactured and recovered gases - by type

Terajoules

Country or area	Year	Total	Gas works gas	Coke oven gas	Blast furnace gas	Other recovered gas
Australia	2020	36,675	39	20,169	16,467	..
	2021	36,667	47	20,012	16,608	..
	2022	35,688	46	18,867	16,775	..
	2023	33,814	54	17,567	16,193	..
New Zealand	2020	11,835	..	5,454	6,110	271
	2021	13,051	..	5,768	6,991	292
	2022	11,777	..	5,169	6,354	254
	2023	10,580	..	4,314	6,016	251