

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.

Figure 74: Production of manufactured and recovered gases by region, 1990-2022

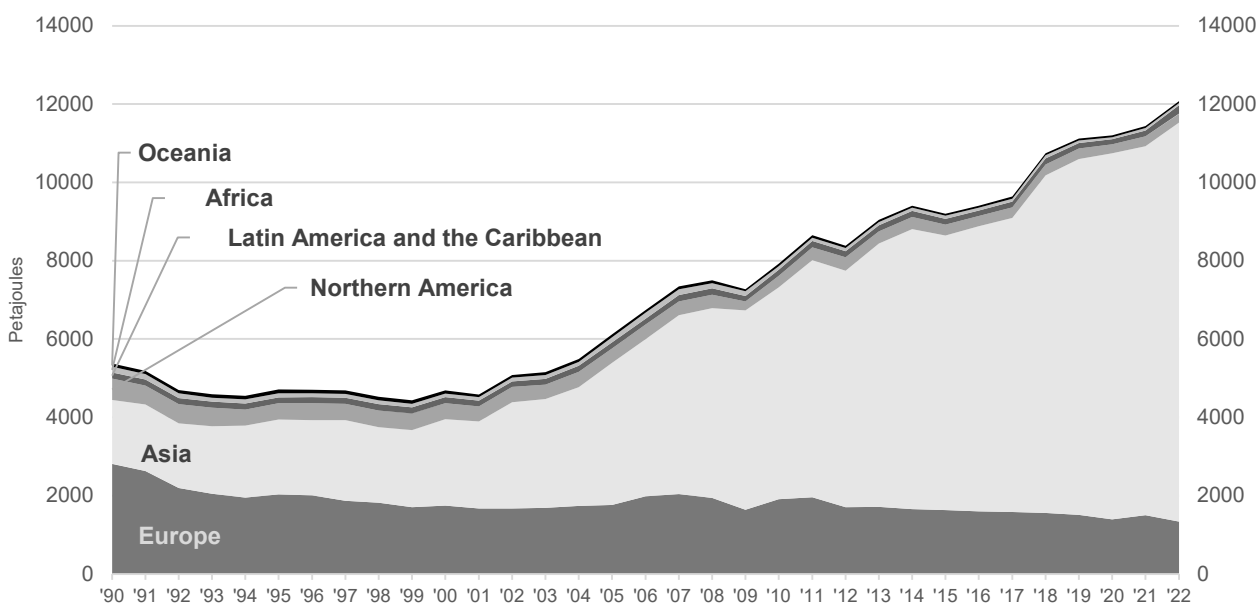


Figure 75: World production of manufactured and recovered gases by type, 2022

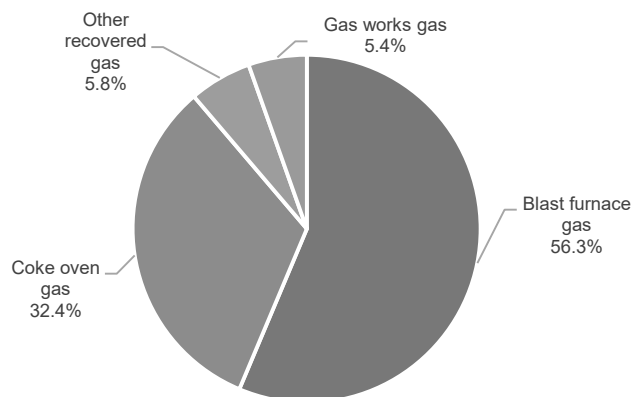


Table 30

Production of manufactured and recovered gases - by type

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Country or area	Year	Total	Gas works gas	Coke oven gas	Blast furnace gas	Other recovered gas
World	2019	11,118,741	448,228	3,299,553	6,732,702	638,257
	2020	11,196,359	379,469	3,328,174	6,806,515	682,201
	2021	11,433,863	388,533	3,429,226	6,925,512	690,591
	2022	12,073,943	652,698	3,917,896	6,801,303	702,047
Africa	2019	69,014	21,920	21,165	25,930	..
	2020	45,549	16,348	12,484	16,717	..
	2021	64,400	21,661	20,147	22,592	..
	2022	52,629	19,075	14,910	18,644	..
Algeria	2019	5,108	..	..	5,108	..
	2020	2,564	..	..	2,564	..
	2021	4,624	..	..	4,624	..
	2022	3,061	..	..	3,061	..
Egypt	2019	2,825	128	..	2,697	..
	2020	4,152	15	..	4,137	..
	2021	4,137	..	..	4,137	..
	2022	4,213	76	..	4,137	..
South Africa	2019	60,154	21,791	20,238	18,125	..
	2020	37,533	16,333	11,184	10,016	..
	2021	50,937	21,661	15,445	13,832	..
	2022	43,227	18,999	12,782	11,447	..
Zimbabwe	2019	927	..	927	..	..
	2020	1,300	..	1,300	..	..
	2021	4,702	..	4,702	..	..
	2022	2,128	..	2,128	..	..
Asia	2019	9,090,551	354,562	2,457,142	5,711,586	567,262
	2020	9,347,291	293,726	2,538,332	5,898,920	616,313
	2021	9,427,966	307,425	2,576,504	5,918,195	625,842
	2022	10,191,869	575,592	3,133,381	5,848,190	634,706
China	2019	6,913,797	324,677	1,680,918	4,452,352	455,851
	2020	7,354,793	264,677	1,816,220	4,765,796	508,100
	2021	7,248,195	278,668	1,826,211	4,635,216	*508,100
	2022	8,120,262	546,979	2,402,442	4,642,028	528,813
China, Hong Kong SAR	2019	28,712	28,712	..	..	..
	2020	27,947	27,947	..	..	..
	2021	27,677	27,677	..	..	..
	2022	27,398	27,398	..	..	..
India	2019	*639,222	*1,173	203,658	*434,391	..
	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	..
Iran (Islamic Rep. of)	2019	25,894	..	9,753	16,140	..
	2020	25,620	..	10,072	15,548	..
	2021	29,167	..	11,103	18,064	..
	2022	28,225	..	11,499	16,726	..
Japan	2019	765,977	..	294,493	412,431	59,053
	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
Kazakhstan	2019	35,479	..	14,455	21,025	..
	2020	32,370	..	12,135	20,234	..
	2021	30,688	..	11,317	19,371	..
	2022	30,004	..	12,623	17,381	..

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Country or area	Year	Total	Gas works gas	Coke oven gas	Blast furnace gas	Other recovered gas
Korea, Dem.Ppl's.Rep.	2019	1,026	..	..	1,026	..
	2020	1,067	..	..	1,067	..
	2021	902	..	..	902	..
	2022	436	..	..	436	..
Korea, Republic of	2019	419,445	..	151,132	227,684	40,629
	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
Malaysia	2019	15,799	..	..	15,799	..
	2020	17,342	..	..	17,342	..
	2021	22,093	..	..	22,093	..
	2022	18,446	..	..	18,446	..
Other Asia	2019	159,396	..	67,187	80,479	11,729
	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
Syrian Arab Republic	2019	3	..	..	3	..
	2020	3	..	..	3	..
	2021	3	..	..	3	..
	2022	3	..	..	3	..
Thailand	2019	390	..	..	390	..
	2020	..	..	..	..	..
	2021	..	..	..	..	..
	2022	..	..	..	..	..
Türkiye	2019	85,411	..	35,546	49,865	..
	2020	88,300	..	36,300	52,000	..
	2021	96,855	..	33,261	63,594	..
	2022	89,618	..	34,116	55,503	..
Europe	2019	1,508,565	15,917	620,018	801,937	70,692
	2020	1,393,400	11,969	593,664	722,150	65,617
	2021	1,497,136	2,646	628,660	801,372	64,457
	2022	1,337,591	2,638	579,879	701,969	53,105
Austria	2019	41,769	..	10,428	27,616	3,725
	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
Belgium	2019	37,978	..	9,906	24,319	3,754
	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
Bosnia and Herzegovina	2019	12,060	..	6,978	5,082	..
	2020	10,020	..	6,285	3,735	..
	2021	10,762	..	6,810	3,952	..
	2022	10,955	..	6,482	4,473	..
Czechia	2019	55,016	12,670	18,950	17,571	5,824
	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
Estonia	2019	14,370	3,247	11,123
	2020	13,707	2,610	11,096
	2021	12,252	2,646	9,606
	2022	11,503	2,638	8,865

Table 30

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Country or area	Year	Total	Gas works gas	Coke oven gas	Blast furnace gas	Other recovered gas
Finland	2019	20,213	..	7,719	8,413	4,081
	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
France	2019	81,667	..	..	81,667	..
	2020	62,309	..	..	62,309	..
	2021	72,964	..	..	72,964	..
	2022	66,473	..	..	66,473	..
Germany	2019	241,116	..	64,151	151,471	25,494
	2020	209,468	..	62,418	125,509	21,542
	2021	227,243	..	60,225	145,434	21,584
	2022	222,126	..	65,130	135,260	21,736
Hungary	2019	15,242	..	8,162	7,080	..
	2020	13,787	..	7,386	6,401	..
	2021	11,174	..	7,024	4,150	..
	2022	7,801	..	4,619	3,182	..
Italy	2019	33,246	..	14,586	17,071	1,590
	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
Netherlands (Kingd. of the)	2019	51,719	..	17,657	34,062	..
	2020	48,690	..	17,093	31,597	..
	2021	53,550	..	17,038	36,512	..
	2022	52,949	..	16,954	35,994	..
Norway	2019	3,611	..	..	3,611	..
	2020	3,064	..	..	3,064	..
	2021	3,565	..	..	3,565	..
	2022	4,106	..	..	4,106	..
Poland	2019	102,427	..	74,779	24,327	3,322
	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
Romania	2019	10,354	..	..	10,354	..
	2020	9,743	..	..	9,743	..
	2021	10,757	..	..	10,757	..
	2022	8,220	..	..	8,220	..
Russian Federation	2019	477,585	..	260,383	217,202	..
	2020	481,713	..	261,111	220,602	..
	2021	496,967	..	268,806	228,161	..
	2022	495,569	..	276,736	218,833	..
Serbia	2019	12,231	..	..	12,231	..
	2020	8,310	..	..	8,310	..
	2021	8,640	..	..	8,640	..
	2022	8,328	..	..	8,328	..
Slovakia	2019	31,861	..	11,619	17,065	3,177
	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
Spain	2019	26,696	..	9,424	17,272	..
	2020	18,514	..	5,513	13,001	..
	2021	29,037	..	11,085	17,952	..
	2022	29,324	..	12,966	16,358	..

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Country or area	Year	Total	Gas works gas	Coke oven gas	Blast furnace gas	Other recovered gas
Sweden	2019	22,895	..	8,096	13,448	1,351
	2020	21,473	..	7,926	11,922	1,625
	2021	20,771	..	6,964	12,553	1,254
	2022	21,473	..	8,151	11,796	1,526
Ukraine	2019	168,849	..	72,116	78,358	18,375
	2020	168,217	..	71,040	76,627	20,550
	2021	175,393	..	77,827	78,801	18,765
	2022	73,041	..	31,925	33,208	7,908
United Kingdom	2019	47,658	..	13,941	33,717	..
	2020	45,822	..	12,755	33,067	..
	2021	48,036	..	11,806	36,231	..
	2022	41,026	..	10,200	30,826	..
Latin America & Carib.	2019	134,916	3,261	89,947	41,708	..
	2020	130,649	3,300	85,037	42,312	..
	2021	145,682	3,272	98,091	44,319	..
	2022	220,089	3,187	93,865	109,054	13,982
Argentina	2019	24,922	..	3,263	21,660	..
	2020	24,070	..	3,592	20,478	..
	2021	29,117	..	4,415	24,701	..
	2022	31,625	..	5,212	26,413	..
Brazil	2019	73,223	..	73,223	..	..
	2020	67,308	..	67,308	..	..
	2021	78,939	..	78,939	..	..
	2022	152,197	..	74,718	63,497	13,982
Chile	2019	6,944	..	3,772	3,172	..
	2020	7,048	..	3,676	3,372	..
	2021	7,469	37	3,831	3,601	..
	2022	6,590	..	3,277	3,314	..
Colombia	2019	2,570	..	1,531	1,040	..
	2020	1,583	..	762	821	..
	2021	1,725	..	831	895	..
	2022	1,795	..	891	904	..
Cuba	2019	3,275	3,261	..	14	..
	2020	3,311	3,300	..	11	..
	2021	3,249	3,235	..	14	..
	2022	3,202	3,187	..	15	..
Mexico	2019	23,981	..	8,158	15,823	..
	2020	27,330	..	9,700	17,630	..
	2021	25,184	..	10,076	15,108	..
	2022	24,679	..	9,767	14,912	..
Northern America	2019	266,902	52,531	86,408	127,963	..
	2020	230,943	54,087	73,018	103,838	..
	2021	248,945	53,482	80,029	115,434	..
	2022	224,285	52,159	71,809	100,317	..
Canada	2019	46,506	..	23,969	22,537	..
	2020	42,243	..	22,789	19,454	..
	2021	42,221	..	19,163	23,058	..
	2022	37,888	..	16,531	21,357	..
United States	2019	220,396	52,531	62,439	105,426	..
	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	..

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Country or area	Year	Total	Gas works gas	Coke oven gas	Blast furnace gas	Other recovered gas
Oceania	2019	48,793	38	24,874	23,578	303
	2020	48,526	39	25,639	22,577	271
	2021	49,734	47	25,796	23,599	292
	2022	47,481	46	24,052	23,129	254
Australia	2019	35,774	38	19,023	16,713	..
	2020	36,675	39	20,169	16,467	..
	2021	36,667	47	20,012	16,608	..
	2022	35,688	46	18,867	16,775	..
New Zealand	2019	13,019	..	5,851	6,865	303
	2020	11,851	..	5,470	6,110	271
	2021	13,067	..	5,784	6,991	292
	2022	11,793	..	5,185	6,354	254