

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, 1990-2021

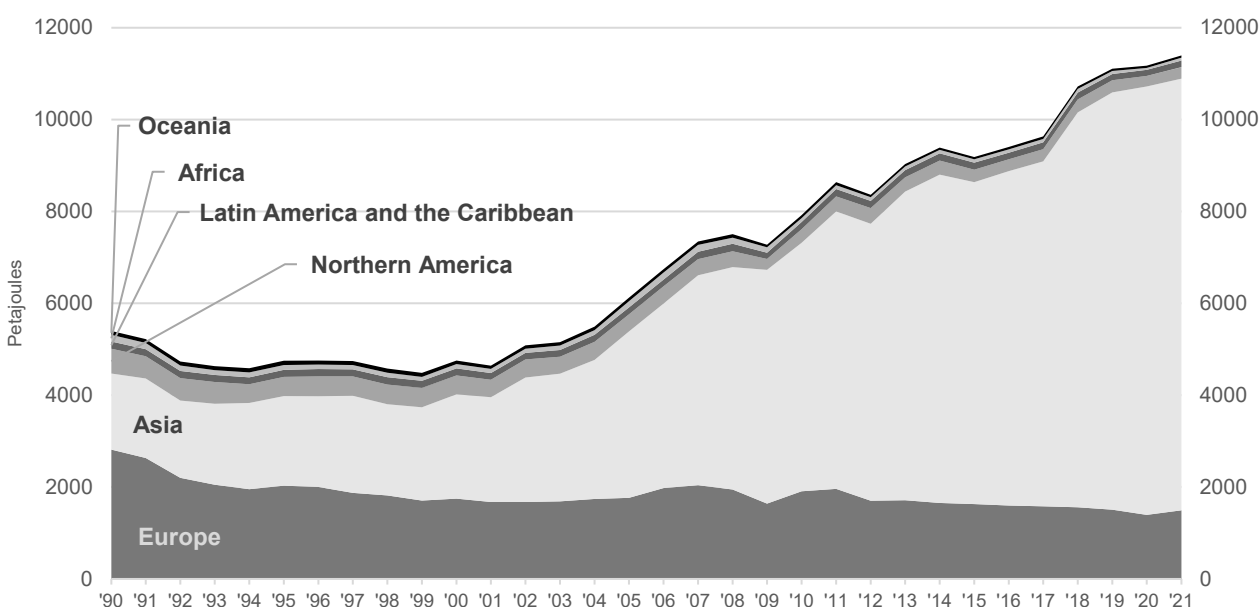


Figure 75: World production of manufactured and recovered gases by type, 2021

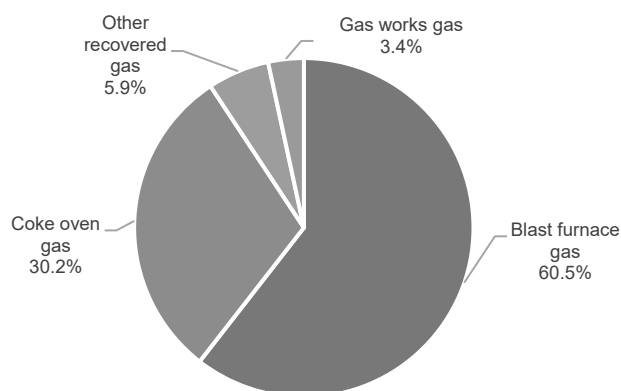


Table 30

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Country or area	Year	Total	Gas works gas	Coke oven gas	Blast furnace gas	Other recovered gas
World	2018	10,718,934	703,512	3,237,055	6,604,822	173,546
	2019	11,107,962	446,909	3,298,185	6,733,807	629,060
	2020	11,173,600	376,869	3,327,016	6,808,927	660,788
	2021	11,396,244	384,583	3,440,839	6,898,225	672,596
Africa	2018	80,680	22,812	25,355	32,513	..
	2019	67,641	20,600	21,110	25,930	..
	2020	42,949	13,748	12,484	16,717	..
	2021	60,450	17,711	20,147	22,592	..
Algeria	2018	5,844	..	..	5,844	..
	2019	5,108	..	..	5,108	..
	2020	2,564	..	..	2,564	..
	2021	4,624	..	..	4,624	..
Egypt	2018	4,764	88	..	4,676	..
	2019	2,825	128	..	2,697	..
	2020	4,152	15	..	4,137	..
	2021	4,137	..	..	4,137	..
South Africa	2018	69,208	22,724	24,491	21,993	..
	2019	58,780	20,472	20,183	18,125	..
	2020	34,933	13,733	11,184	10,016	..
	2021	46,987	17,711	15,445	13,832	..
Zimbabwe	2018	864	..	864	..	..
	2019	927	..	927	..	..
	2020	1,300	..	1,300	..	..
	2021	4,702	..	4,702	..	..
Asia	2018	8,596,474	599,543	2,362,199	5,532,895	101,837
	2019	9,081,146	354,562	2,455,828	5,712,691	558,065
	2020	9,325,896	293,726	2,537,174	5,900,095	594,900
	2021	9,398,435	307,425	2,584,378	5,899,968	606,664
China	2018	6,443,917	568,826	1,586,583	4,288,508	..
	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
China, Hong Kong SAR	2018	29,550	29,550	..	..	..
	2019	28,712	28,712	..	..	..
	2020	27,947	27,947	..	..	..
	2021	27,677	27,677	..	..	..
India	2018	*620,684	*1,167	*193,217	*426,300	..
	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	..
Iran (Islamic Rep. of)	2018	25,796	..	9,815	15,981	..
	2019	25,894	..	9,753	16,140	..
	2020	25,620	..	10,072	15,548	..
	2021	26,921	..	10,130	16,791	..
Japan	2018	779,347	..	295,366	423,160	60,820
	2019	765,977	..	294,493	412,431	59,053
	2020	646,861	..	266,508	331,130	49,224
	2021	710,978	..	274,366	381,045	55,567
Kazakhstan	2018	39,530	..	16,668	22,862	..
	2019	35,479	..	14,455	21,025	..
	2020	32,370	..	12,135	20,234	..
	2021	30,688	..	11,317	19,371	..

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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.	2018	1,222	..	..	1,222	..
	2019	1,026	..	..	1,026	..
	2020	1,067	..	..	1,067	..
	2021	902	..	..	902	..
Korea, Republic of	2018	401,861	..	157,103	215,927	28,831
	2019	407,029	..	149,818	225,779	31,432
	2020	387,939	..	142,777	219,137	26,025
	2021	401,275	..	145,899	225,328	30,049
Malaysia	2018	1,986	..	..	1,986	..
	2019	15,799	..	..	15,799	..
	2020	17,342	..	..	17,342	..
	2021	22,093	..	..	22,093	..
Other Asia	2018	160,266	..	67,189	80,891	12,186
	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
Philippines	2018	3,466	..	..	3,466	..
	2019	3,010	..	..	3,010	..
	2020	2,931	..	..	2,931	..
	2021	*3,000	..	..	*3,000	..
Syrian Arab Republic	2018	3	..	..	3	..
	2019	3	..	..	3	..
	2020	3	..	..	3	..
	2021	3	..	..	3	..
Thailand	2018	589	..	..	589	..
	2019	390	..	..	390	..
	2020	..	..	..	..	..
	2021	..	..	..	..	..
Türkiye	2018	88,258	..	36,258	52,000	..
	2019	85,411	..	35,546	49,865	..
	2020	88,300	..	36,300	52,000	..
	2021	96,855	..	33,261	63,594	..
Europe	2018	1,560,035	17,159	635,124	836,339	71,412
	2019	1,508,565	15,917	620,018	801,937	70,692
	2020	1,394,637	11,969	593,665	723,387	65,617
	2021	1,492,997	2,646	632,398	792,313	65,640
Austria	2018	38,954	..	10,321	25,239	3,393
	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
Belgium	2018	37,292	..	10,020	23,607	3,665
	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
Bosnia and Herzegovina	2018	12,246	..	7,632	4,614	..
	2019	12,060	..	6,978	5,082	..
	2020	10,020	..	6,285	3,735	..
	2021	10,762	..	6,810	3,952	..
Czechia	2018	60,382	13,932	20,673	19,796	5,982
	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

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Country or area	Year	Total	Gas works gas	Coke oven gas	Blast furnace gas	Other recovered gas
Estonia	2018	14,132	3,228	10,905	..	..
	2019	14,370	3,247	11,123	..	..
	2020	13,707	2,610	11,096	..	..
	2021	12,252	2,646	9,606	..	..
Finland	2018	23,649	..	8,277	11,526	3,846
	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
France	2018	86,218	..	..	86,218	..
	2019	81,667	..	..	81,667	..
	2020	62,309	..	..	62,309	..
	2021	72,964	..	..	72,964	..
Germany	2018	250,530	..	64,646	160,885	24,999
	2019	241,116	..	64,151	151,471	25,494
	2020	209,468	..	62,418	125,509	21,542
	2021	223,105	..	63,963	136,376	22,766
Hungary	2018	17,669	..	9,109	8,560	..
	2019	15,242	..	8,162	7,080	..
	2020	13,787	..	7,386	6,401	..
	2021	11,174	..	7,024	4,150	..
Italy	2018	34,808	..	15,150	18,007	1,651
	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
Netherlands (Kingd. of the)	2018	54,642	..	18,118	36,524	..
	2019	51,719	..	17,657	34,062	..
	2020	48,690	..	17,093	31,597	..
	2021	53,549	..	17,038	36,511	..
Norway	2018	4,197	..	..	4,197	..
	2019	3,611	..	..	3,611	..
	2020	3,064	..	..	3,064	..
	2021	3,565	..	..	3,565	..
Poland	2018	107,821	..	78,254	26,377	3,191
	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
Romania	2018	10,137	..	..	10,137	..
	2019	10,354	..	..	10,354	..
	2020	9,743	..	..	9,743	..
	2021	10,757	..	..	10,757	..
Russian Federation	2018	481,163	..	261,597	219,566	..
	2019	477,585	..	260,383	217,202	..
	2020	481,713	..	261,111	220,602	..
	2021	496,967	..	268,806	228,161	..
Serbia	2018	12,281	..	..	12,281	..
	2019	12,231	..	..	12,231	..
	2020	8,310	..	..	8,310	..
	2021	8,640	..	..	8,640	..
Slovakia	2018	40,606	..	13,427	22,696	4,483
	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

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Country or area	Year	Total	Gas works gas	Coke oven gas	Blast furnace gas	Other recovered gas
Spain	2018	30,055	..	10,510	19,545	..
	2019	26,696	..	9,424	17,272	..
	2020	18,514	..	5,513	13,001	..
	2021	29,037	..	11,085	17,952	..
Sweden	2018	21,732	..	7,692	12,149	1,891
	2019	22,895	..	8,096	13,448	1,351
	2020	22,710	..	7,926	13,159	1,625
	2021	20,771	..	6,964	12,553	1,254
Ukraine	2018	175,545	..	75,559	81,674	18,312
	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
United Kingdom	2018	45,975	..	13,234	32,741	..
	2019	47,658	..	13,941	33,717	..
	2020	45,822	..	12,755	33,067	..
	2021	48,036	..	11,806	36,231	..
Latin America & Carib.	2018	150,567	3,392	99,745	47,430	..
	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	..
Argentina	2018	30,601	..	4,775	25,826	..
	2019	24,922	..	3,263	21,660	..
	2020	24,070	..	3,592	20,478	..
	2021	29,117	..	4,415	24,701	..
Brazil	2018	80,329	..	80,329	..	..
	2019	73,223	..	73,223	..	..
	2020	67,308	..	67,308	..	..
	2021	78,939	..	78,939	..	..
Chile	2018	6,727	73	3,745	2,909	..
	2019	6,944	..	3,772	3,172	..
	2020	7,048	..	3,676	3,372	..
	2021	7,469	37	3,831	3,601	..
Colombia	2018	2,220	..	1,189	1,031	..
	2019	2,570	..	1,531	1,040	..
	2020	1,583	..	762	821	..
	2021	1,725	..	831	895	..
Cuba	2018	3,333	3,319	..	14	..
	2019	3,275	3,261	..	14	..
	2020	3,311	3,300	..	11	..
	2021	3,249	3,235	..	14	..
Mexico	2018	27,357	..	9,707	17,650	..
	2019	23,981	..	8,158	15,823	..
	2020	27,330	..	9,700	17,630	..
	2021	25,184	..	10,076	15,108	..
Northern America	2018	281,750	60,567	89,617	131,566	..
	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	..
Canada	2018	46,322	..	24,703	21,619	..
	2019	46,506	..	23,969	22,537	..
	2020	42,243	..	22,789	19,454	..
	2021	42,221	..	19,163	23,058	..

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Country or area	Year	Total	Gas works gas	Coke oven gas	Blast furnace gas	Other recovered gas
United States	2018	235,428	60,567	64,914	109,947	..
	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	..
Oceania	2018	49,429	38	25,016	24,078	296
	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
Australia	2018	38,161	38	20,687	17,436	..
	2019	35,774	38	19,023	16,713	..
	2020	36,675	39	20,169	16,467	..
	2021	36,667	47	20,012	16,608	..
New Zealand	2018	11,268	..	4,329	6,642	296
	2019	13,019	..	5,851	6,865	303
	2020	11,851	..	5,470	6,110	271
	2021	13,067	..	5,784	6,991	292