



APPENDIX TABLE 6-71

USPTO patents granted in air pollution control technology, by region, country, or economy: 1998–2016

(Number)

Region, country, or economy	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
World	826	807	813	888	814	860	864	761	759	702	724	864	1,165	1,203	1,359	1,554	1,585	1,550	1,447
North America	407	383	405	430	426	399	409	377	391	343	358	437	573	596	666	740	754	708	658
Canada	11	13	17	18	22	14	16	17	15	14	17	13	22	20	27	22	26	29	25
Mexico	0	0	0	0	0	0	1	0	0	0	1	0	0	1	2	1	0	1	2
Puerto Rico	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
United States	396	370	388	412	404	385	393	360	376	329	340	424	551	575	636	717	727	678	630
Central and South America	1	2	0	0	0	1	0	2	1	0	1	0	2	1	2	5	3	1	4
Argentina	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0
Brazil	0	0	0	0	0	0	0	1	1	0	0	0	2	1	0	2	1	1	2
All others	1	2	0	0	0	0	0	1	0	0	1	0	0	0	2	2	1	0	2
Europe	168	204	179	224	177	195	174	152	148	152	145	172	250	243	254	366	369	341	316
EU	160	193	174	212	171	188	170	143	144	146	140	161	243	237	251	355	352	326	304
Austria	3	3	0	3	3	2	3	4	3	4	1	2	5	5	6	9	4	10	7
Belgium	1	3	5	3	3	2	2	2	3	1	0	4	4	2	2	10	6	8	11
Denmark	3	4	3	5	1	6	2	3	1	4	3	5	2	5	3	6	11	9	7
Finland	3	2	6	5	1	6	5	2	1	5	4	4	5	4	4	4	6	4	4



Region, country, or economy	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
France	23	28	33	33	26	19	17	11	15	22	21	27	33	30	24	46	31	24	28
Germany	85	101	97	123	89	108	98	84	87	75	72	80	130	130	142	187	177	147	148
Hungary	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	1	0	0	0
Ireland	0	0	1	0	0	0	1	0	0	1	0	1	1	1	0	0	0	0	1
Italy	6	7	4	6	9	7	6	6	5	4	4	8	3	6	9	9	17	17	7
Netherlands	2	12	4	9	5	5	4	4	2	2	3	5	11	11	9	15	19	14	7
Spain	1	1	0	0	1	0	0	0	0	0	0	1	0	0	1	1	3	3	0
Sweden	11	10	8	11	16	10	12	10	9	9	15	10	17	13	13	21	28	34	27
United Kingdom	22	22	11	13	15	22	21	16	18	17	18	15	28	25	34	44	47	54	55
All others	0	1	1	0	1	2	1	0	1	2	0	0	3	4	4	2	1	1	2
Other Europe	8	11	5	12	6	7	4	8	4	6	5	11	7	5	3	10	17	16	12
Former Soviet Union	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Norway	1	1	0	5	2	3	1	4	1	2	2	3	3	3	0	4	6	6	6
Russia	1	3	0	2	0	0	1	2	2	0	1	2	1	0	1	2	1	1	1
Switzerland	5	6	5	5	4	3	2	2	1	4	2	4	2	2	2	2	9	8	5
All others	1	1	0	0	0	0	0	0	1	0	0	1	0	0	0	1	0	0	0
Asia	244	212	225	228	206	262	277	225	217	202	217	252	337	358	422	421	447	476	451
China	3	0	2	2	2	5	3	1	2	7	5	4	13	12	11	16	17	16	26
India	0	0	3	1	0	0	2	0	0	1	1	0	1	1	5	5	9	6	9



Region, country, or economy	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Japan	220	196	206	201	186	229	253	205	199	175	190	229	292	316	370	348	368	389	359
Malaysia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0
Singapore	0	0	0	1	0	1	1	1	0	0	0	1	0	0	0	1	0	3	3
South Korea	11	7	9	11	10	15	12	7	9	12	16	12	20	20	29	44	47	52	44
Taiwan	9	9	5	12	8	12	6	10	8	7	5	4	9	7	6	6	4	9	10
All others	1	0	0	0	1	0	0	0	0	0	0	1	1	1	0	0	2	1	0
Middle East	1	2	0	4	3	3	2	2	0	3	2	3	3	3	6	12	9	14	13
Israel	1	1	0	3	3	3	1	2	0	0	1	2	2	1	2	3	2	3	2
All others	1	1	0	1	0	0	1	0	0	3	1	1	1	2	4	9	7	11	10
Africa	1	2	2	0	0	0	0	0	2	1	1	0	0	0	2	0	1	0	0
South Africa	1	2	2	0	0	0	0	0	2	1	1	0	0	0	2	0	1	0	0
All others	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia and Oceania	4	4	1	2	2	0	1	3	0	1	0	0	1	2	7	10	3	10	6
Australia	4	4	1	1	2	0	1	3	0	1	0	0	1	2	6	9	3	9	5
New Zealand	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	1	1
Unclassified	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

EU = European Union; USPTO = U.S. Patent and Trademark Office.

Note(s)



Patents are fractionally allocated among regions, countries, or economies based on the proportion of residences of all named inventors. The EU includes 28 member countries. Technologies are based on a classification developed by The Patent Board.

Source(s)

Science-Metrix; PatentsView and USPTO patent data.

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