



APPENDIX TABLE 6-70

USPTO patents granted in capture and storage of carbon and other greenhouse gases technologies, 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	70	89	101	99	97	98	87	79	63	61	70	103	165	166	210	346	346	294	300
North America	31	58	69	55	56	64	55	49	38	34	46	69	111	121	144	206	196	164	149
Canada	1	2	2	2	1	3	0	4	4	3	0	2	8	4	8	12	6	8	9
Mexico	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Puerto Rico	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
United States	30	56	68	53	55	61	54	45	34	31	46	67	102	117	136	193	190	155	140
Central and South America	0	0	1	0	1	0	0	0	0	0	0	0	0	1	0	0	1	2	1
Argentina	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Brazil	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	2	0
All others	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	1
Europe	18	14	16	26	24	18	14	12	14	16	15	18	31	28	34	70	78	59	52
EU	15	13	15	21	22	15	12	9	10	15	14	15	28	22	31	62	69	47	43
Austria	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	2
Belgium	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	1	1	0	0
Denmark	0	0	0	0	0	0	1	1	0	0	1	0	1	1	4	3	3	1	2
Finland	0	1	0	0	0	0	1	0	0	0	0	1	0	1	0	0	2	2	0



Region, country, or economy	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
France	5	2	6	12	9	7	6	4	4	8	2	4	7	3	7	11	10	4	13
Germany	7	2	7	3	7	3	4	2	2	4	6	8	10	10	5	24	21	19	16
Hungary	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0
Ireland	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Italy	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	1	1	2	4
Netherlands	1	4	0	0	2	0	0	1	0	2	2	1	5	5	4	6	11	5	1
Spain	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	2	1	0
Sweden	0	1	0	1	0	0	0	0	0	0	1	0	0	0	2	1	3	2	2
United Kingdom	2	4	2	3	1	4	1	1	2	2	2	1	4	3	9	12	14	11	2
All others	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	1
Other Europe	3	1	1	5	2	3	2	3	4	1	1	3	3	5	3	8	9	12	9
Former Soviet Union	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Norway	2	1	0	4	0	2	2	2	1	1	0	2	3	3	1	5	6	8	5
Russia	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	0	1
Switzerland	1	0	1	1	2	1	0	0	3	0	0	0	1	2	1	3	3	5	4
All others	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Asia	19	14	15	16	15	14	16	17	9	11	7	14	22	15	29	57	62	57	84
China	1	0	0	0	0	0	0	0	0	0	0	0	5	2	2	2	2	0	5
India	0	0	0	0	0	0	1	0	0	0	0	0	1	0	1	0	1	2	5



Region, country, or economy	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Japan	16	14	15	14	15	12	14	16	9	8	7	10	10	9	15	42	45	39	53
Malaysia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Singapore	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Korea	1	0	0	0	0	1	0	0	0	2	0	2	5	4	8	12	13	11	19
Taiwan	1	0	0	2	0	1	1	1	0	0	0	2	1	0	3	1	1	3	2
All others	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0
Middle East	1	1	0	1	0	1	1	0	0	0	1	0	0	0	0	1	3	6	9
Israel	1	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	0	2
All others	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	2	6	7
Africa	0	1	0	1	0	0	0	1	0	0	0	0	0	0	1	1	0	1	0
South Africa	0	1	0	1	0	0	0	1	0	0	0	0	0	0	1	1	0	1	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	1	1	0	0	1	0	0	0	2	0	0	2	1	1	2	11	7	5	6
Australia	1	1	0	0	1	0	0	0	2	0	0	2	1	1	1	7	7	4	5
New Zealand	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	0	1	1
Unclassified	0	0	0	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)**

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Science-Metrix; PatentsView and USPTO patent data.

*Science and Engineering Indicators 2018*