



APPENDIX TABLE 6-65

USPTO patents granted in wind energy 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	30	34	48	57	60	64	87	126	137	153	172	185	293	525	713	657	689	606	576
North America	20	25	34	33	30	30	43	58	69	72	86	71	130	224	272	268	230	190	204
Canada	1	3	5	0	3	1	7	6	4	2	6	6	9	10	7	15	10	11	7
Mexico	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	5	0	0	0
Puerto Rico	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0	1
United States	19	22	29	33	26	29	36	52	66	70	80	65	120	213	265	248	218	179	196
Central and South America	0	1	0	0	0	0	1	0	1	0	0	0	0	2	2	0	1	2	2
Argentina	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2	1
Brazil	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1
All others	0	1	0	0	0	0	1	0	1	0	0	0	0	1	0	0	1	1	0
Europe	7	4	8	17	20	24	33	53	41	65	58	90	122	217	297	265	334	310	282
EU	7	4	7	17	19	24	33	52	41	62	56	89	121	213	289	257	328	303	276
Austria	0	0	0	0	1	0	0	0	1	0	0	1	2	1	5	1	5	2	2
Belgium	0	0	0	1	1	1	0	0	2	1	1	2	2	0	2	4	5	4	1
Denmark	1	0	0	2	1	8	8	9	4	10	7	10	33	76	104	87	129	117	122
Finland	0	1	0	2	1	0	0	0	0	1	0	0	0	0	1	0	2	0	1



Region, country, or economy	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
France	1	1	0	3	0	1	0	6	3	2	0	0	0	1	3	7	15	6	8
Germany	2	0	2	5	9	7	19	29	27	35	37	61	67	82	106	97	95	92	77
Hungary	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Ireland	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	1
Italy	0	0	0	0	1	0	0	1	0	1	3	2	1	2	6	8	7	13	6
Netherlands	0	0	2	1	2	2	2	1	0	3	2	3	3	15	24	9	11	6	6
Spain	2	0	1	0	2	1	3	2	0	2	2	5	9	17	20	22	29	30	31
Sweden	0	1	0	2	1	3	0	2	2	1	1	0	0	2	3	5	2	3	3
United Kingdom	1	1	2	1	0	1	1	2	2	6	3	6	1	16	11	12	26	29	18
All others	0	0	0	0	0	0	0	0	0	0	0	0	3	1	3	4	1	1	0
Other Europe	0	0	1	0	1	0	0	1	0	3	2	1	1	3	8	8	5	7	6
Former Soviet Union	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Norway	0	0	0	0	0	0	0	1	0	2	1	0	1	1	3	5	4	3	2
Russia	0	0	0	0	1	0	0	0	0	1	0	1	0	1	2	1	0	1	1
Switzerland	0	0	0	0	0	0	0	0	0	0	1	0	0	1	2	2	1	1	1
All others	0	0	1	0	0	0	0	0	0	0	0	0	0	1	2	0	0	2	1
Asia	2	4	5	6	9	9	8	14	22	15	27	21	33	79	135	117	116	95	77
China	0	0	0	1	0	1	0	1	1	0	2	2	11	7	16	12	15	19	20
India	0	0	0	0	0	0	0	1	0	0	1	1	1	21	11	4	3	11	4



Region, country, or economy	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Japan	0	1	4	4	7	6	5	7	14	12	15	10	16	36	81	67	58	29	20
Malaysia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2
Singapore	0	0	0	0	0	0	0	0	0	0	0	1	0	3	11	7	10	12	12
South Korea	0	1	0	1	0	1	1	4	4	0	2	2	4	1	4	9	14	11	10
Taiwan	2	1	1	0	2	1	2	1	2	3	7	5	1	10	13	16	14	10	9
All others	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	1	1	2	0
Middle East	0	0	1	0	1	0	0	1	3	0	0	1	5	3	4	3	7	7	10
Israel	0	0	1	0	1	0	0	1	3	0	0	1	4	2	4	0	5	2	5
All others	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	3	2	5	5
Africa	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	1	1	0
South Africa	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	1	0
All others	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Australia and Oceania	0	0	0	1	0	1	2	0	1	1	1	1	1	0	2	4	0	1	1
Australia	0	0	0	1	0	1	2	0	1	1	1	1	1	0	2	3	0	1	1
New Zealand	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Unclassified	1	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)

Science-Metrix; PatentsView and USPTO patent data.

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