

Appendix table 6-58

**USPTO patents granted in alternative energy technologies, by region/country/economy: Selected years, 1997–2012**

Region/country/economy	1997	1999	2001	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
World	846	1,093	1,346	1,588	1,606	1,501	1,691	1,605	1,649	2,012	3,094	3,924	5,214
North America	449	532	644	747	783	721	846	796	791	955	1,468	1,927	2,473
Bermuda	1	1	0	0	0	0	0	0	1	0	0	0	0
Canada	23	25	24	55	64	71	67	43	50	50	65	92	101
Mexico	1	0	1	0	1	1	0	0	1	0	2	1	2
United States	424	506	618	692	718	649	779	753	740	905	1,401	1,833	2,371
Central and South America	0	6	1	5	2	3	4	2	0	2	1	11	13
Argentina	0	0	1	0	0	0	0	0	0	0	1	2	2
Brazil	0	1	0	0	1	2	1	2	0	1	0	7	8
All others	0	5	0	5	1	1	3	0	0	1	0	3	3
Europe	147	201	230	274	260	279	243	284	321	341	537	659	970
EU	137	184	204	264	246	261	230	272	300	327	513	630	931
Austria	2	6	4	1	5	4	9	4	5	9	9	9	18
Belgium	0	0	3	5	6	6	5	5	4	5	9	11	10
Denmark	3	2	4	12	12	14	4	14	12	20	46	96	137
Finland	2	5	3	3	2	5	4	5	2	4	6	3	12
France	32	27	28	34	25	32	31	40	29	34	63	76	92
Germany	57	94	109	139	134	139	126	136	165	186	260	273	398
Hungary	1	1	0	0	0	0	0	0	0	0	2	1	3
Ireland	0	0	1	0	0	3	0	0	2	1	1	2	3
Italy	6	9	9	7	7	7	10	7	12	10	21	24	42
Netherlands	2	5	12	12	9	7	5	15	17	10	17	30	48
Spain	1	0	1	11	7	6	3	6	4	13	15	26	38
Sweden	14	17	14	16	14	11	11	9	9	9	12	15	27
United Kingdom	19	18	14	22	24	26	23	29	37	26	41	55	87
All others	0	1	4	2	1	1	1	1	3	1	12	8	18
Other Europe	10	17	26	10	14	18	13	12	21	14	24	29	39
Norway	1	1	2	1	0	2	2	2	7	5	4	7	10
Russia	0	0	2	2	2	3	1	2	3	2	4	4	4
Former Soviet Union	1	0	0	0	0	0	0	0	0	0	0	0	0
Switzerland	8	16	21	6	10	11	10	8	11	6	14	15	23
All others	0	0	1	1	2	2	0	0	0	1	2	3	2
Asia	227	327	451	537	536	486	578	506	520	687	1,046	1,273	1,698
China	1	0	1	2	3	3	8	9	10	15	32	33	78
India	0	0	1	1	1	1	0	5	3	4	7	26	28
Japan	211	299	420	504	484	440	517	444	436	521	737	868	1,141
Malaysia	0	0	1	0	1	0	0	0	0	0	0	1	2
Singapore	0	0	0	0	0	1	0	0	1	3	5	7	13
South Korea	9	13	14	18	27	28	28	28	42	93	192	226	270
Taiwan	4	12	10	9	20	13	22	20	28	49	66	110	163
All others	2	3	4	3	0	0	3	0	0	2	7	2	3

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Region/country/economy	1997	1999	2001	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Middle East	13	13	11	13	14	7	6	7	9	9	23	27	34
Israel	11	12	10	12	13	6	6	5	9	7	18	21	24
All others	2	1	1	1	1	1	0	2	1	1	5	5	10
Africa	2	1	0	0	0	2	2	2	0	2	6	3	1
South Africa	2	1	0	0	0	1	2	2	0	1	6	3	1
All others	0	0	0	0	0	1	0	0	0	1	0	0	0
Australia/Oceania	7	15	8	14	11	3	14	9	8	16	14	28	24
Australia	6	14	8	13	11	3	13	9	6	15	13	26	20
New Zealand	1	1	0	1	1	0	1	0	2	1	1	2	4
All others	0	0	0	0	0	0	0	0	0	0	0	0	0

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

NOTES: Technologies classified by The Patent Board™. Alternative energy technologies consist of bioenergy, electric/hybrid vehicles, fuel cells, geothermal, hydropower, nuclear, solar, and wind. Patents fractionally allocated among regions/countries/economies based on proportion of residences of all named inventors. EU includes 27 member countries. China includes Hong Kong and Macau. Detail may not add to total because of rounding or minor discrepancies. See appendix table 6-51 for full list of countries by region.

SOURCE: The Patent Board™, special tabulations (2013) of Proprietary Patent Database.

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