

Appendix table 6-60

USPTO patents granted in smart grid technology, 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	291	302	321	344	306	295	384	366	386	384	543	543	811
North America	166	171	202	208	193	183	247	245	272	248	344	364	528
Bermuda	0	0	0	0	0	0	0	0	0	0	1	0	0
Canada	9	11	10	15	19	12	21	24	22	15	28	24	34
Mexico	0	0	0	1	0	1	1	0	0	0	3	0	1
United States	157	160	192	193	173	169	225	221	250	233	313	340	493
Central and South America	0	0	0	2	3	0	0	0	0	1	0	2	6
Argentina	0	0	0	1	0	0	0	0	0	0	0	1	0
Brazil	0	0	0	1	1	0	0	0	0	0	0	1	3
All others	0	0	0	0	1	0	0	0	0	1	0	0	0
Europe	55	73	57	66	51	61	52	51	54	67	91	86	145
EU	47	68	48	55	42	49	42	45	47	60	86	70	131
Austria	0	0	0	0	1	1	0	0	1	2	0	2	2
Belgium	0	1	0	0	0	0	0	0	0	0	1	0	3
Denmark	0	0	3	2	2	3	2	0	1	1	8	6	6
Finland	1	0	0	0	0	3	2	3	0	1	2	2	3
France	10	15	8	12	4	9	2	8	5	7	16	12	10
Germany	12	19	13	19	14	16	12	13	19	25	29	22	39
Hungary	0	0	0	0	0	0	0	0	0	0	0	0	0
Ireland	0	0	1	2	1	1	0	0	2	1	1	0	1
Italy	1	3	3	4	8	7	8	6	4	2	4	6	12
Netherlands	0	2	1	1	2	0	1	0	1	2	0	1	2
Spain	0	0	0	0	1	2	0	1	3	6	6	2	6
Sweden	16	21	10	10	3	6	6	5	4	2	12	9	29
United Kingdom	8	8	10	5	6	1	10	7	6	10	7	9	14
All others	0	0	0	1	1	1	0	2	1	1	1	1	3
Other Europe	8	5	9	11	9	12	10	6	7	7	5	16	14
Norway	1	1	0	0	2	3	0	1	1	0	0	1	0
Russia	0	0	0	0	0	0	0	0	1	1	0	1	0
Former Soviet Union	0	0	0	0	0	0	0	0	0	0	0	0	0
Switzerland	7	2	8	10	7	9	10	5	5	6	5	14	14
All others	0	2	1	1	0	0	0	0	0	0	0	0	0
Asia	67	57	64	64	51	42	75	62	57	61	96	74	121
China	1	0	2	1	0	1	1	1	4	6	5	7	13
India	0	0	0	1	2	1	2	3	2	1	4	5	7
Japan	63	52	54	49	41	30	53	41	38	34	67	38	62
Malaysia	0	0	0	0	0	0	0	0	0	0	0	0	1
Singapore	0	1	0	1	0	0	0	1	0	0	1	0	3
South Korea	1	3	6	5	5	3	14	10	6	15	9	19	24
Taiwan	2	1	2	7	3	7	5	6	7	4	10	5	10
All others	0	0	0	0	0	0	0	0	0	1	0	0	1
Middle East	1	0	0	2	2	5	6	4	4	5	8	16	12

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Region/country/economy	1997	1999	2001	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Israel	1	0	0	2	2	4	6	4	4	5	6	15	12
All others	0	0	0	0	0	1	0	0	0	0	2	1	1
Africa	0	1	0	0	0	0	0	1	0	1	1	0	0
South Africa	0	1	0	0	0	0	0	1	0	1	0	0	0
All others	0	0	0	0	0	0	0	0	0	0	1	0	0
Australia/Oceania	3	2	0	3	7	4	4	3	0	2	4	2	3
Australia	1	1	0	3	5	4	4	3	0	2	3	2	1
New Zealand	2	1	0	0	2	0	0	0	0	0	1	0	2
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 are classified by The Patent Board™. Patents are fractionally allocated among regions/countries/economies based on the proportion of residences of all named inventors. The EU includes 27 member countries. China includes Hong Kong. Detail may not add to total because of rounding or minor discrepancies. See appendix table 6-41 for a full list of countries by region/country/economy.

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

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