

The Great Transition: Shifting from Fossil Fuels to Solar and Wind Energy Supporting Data - Wind Power

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A full listing of data for the entire book is on-line at:

http://www.earth-policy.org/books/tgt/tgt_data

This is part of a supporting dataset for **The Great Transition: Shifting from Fossil Fuels to Solar and Wind Energy**, by Lester R. Brown, with Janet Larsen, J. Matthew Roney, and Emily E. Adams (New York: W.W. Norton & Company, 2015).

For more information, see Earth Policy Institute on-line at www.earth-policy.org.

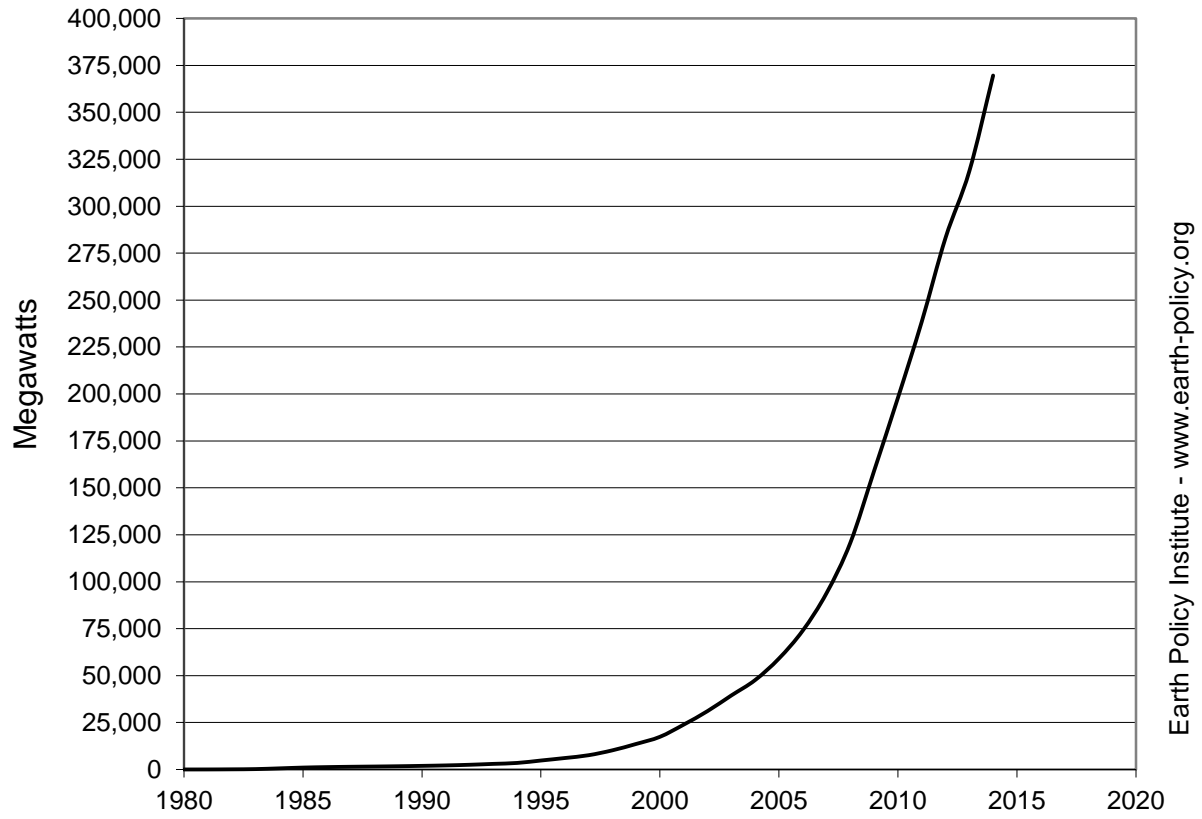
World Cumulative Installed Wind Power Capacity and Net Annual Addition, 1980-2014

Year	Cumulative Installed Capacity	Net Annual Addition*
Megawatts		
1980	10	
1981	25	15
1982	90	65
1983	210	120
1984	600	390
1985	1,020	420
1986	1,270	250
1987	1,450	180
1988	1,580	130
1989	1,730	150
1990	1,930	200
1991	2,170	240
1992	2,510	340
1993	2,990	480
1994	3,490	500
1995	4,780	1,290
1996	6,100	1,320
1997	7,600	1,500
1998	10,200	2,600
1999	13,600	3,400
2000	17,400	3,800
2001	23,900	6,500
2002	31,100	7,200
2003	39,431	8,331
2004	47,620	8,189
2005	59,091	11,471
2006	73,949	14,858
2007	93,901	19,952
2008	120,715	26,814
2009	159,079	38,364
2010	197,943	38,864
2011	238,435	40,492
2012	283,132	44,697
2013	318,644	35,512
2014	369,597	50,953

* Note: Net annual addition equals new installations minus retirements.

Source: Compiled by Earth Policy Institute with 1980-1995 data from Janet L. Sawin, "Wind Power Still Soaring," in Worldwatch Institute, *Vital Signs 2007-2008* (New York: W. W. Norton & Company, 2007); 1996 data from Global Wind Energy Council (GWEC), *Global Wind Report: Annual Market Update 2013* (Brussels: April 2014), p. 21; 1997-2014 data from GWEC, *Global Wind Report: Annual Market Update 2014* (Brussels: April 2015), p. 11.

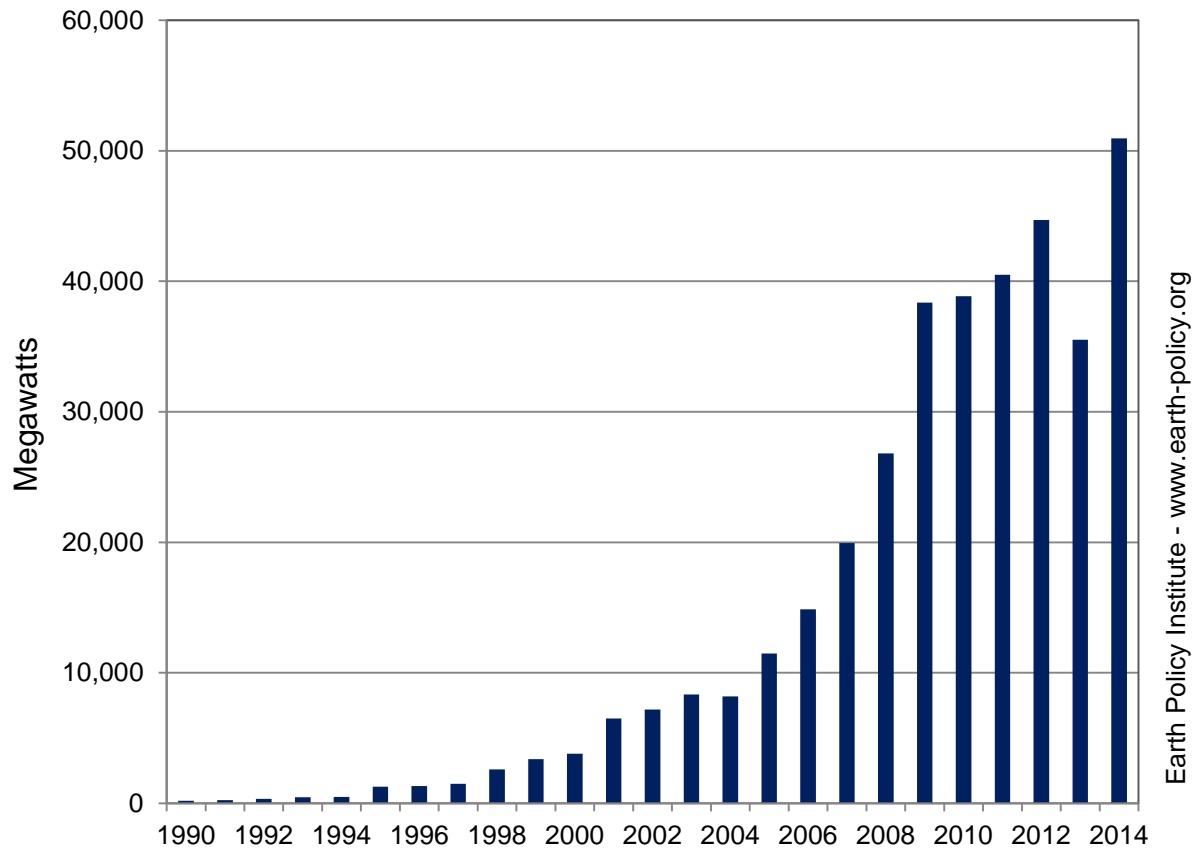
World Cumulative Installed Wind Power Capacity, 1980-2014



Source: EPI from GWEC, Worldwatch

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World Net Annual Installed Wind Power Capacity Additions, 1990-2014



Source: EPI from GWEC, Worldwatch

Earth Policy Institute - www.earth-policy.org

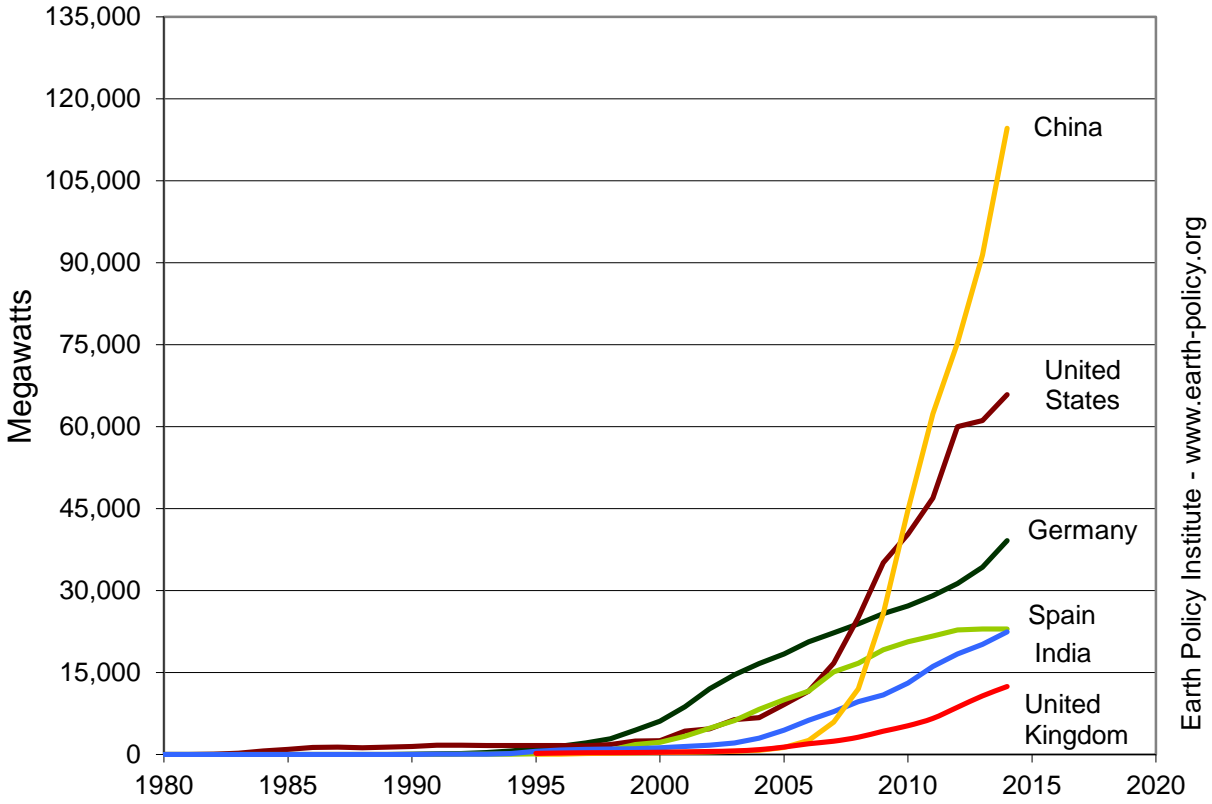
Cumulative Installed Wind Power Capacity in Top Ten Countries and the World, 1980-2014

Year	China	U.S.	Germany	Spain	India	U.K.	Canada	France	Italy	Brazil	World
----- Megawatts -----											
1980	n.a.	8	0	0	0	0	n.a.	0	0	n.a.	10
1981	n.a.	18	0	0	0	0	n.a.	0	0	n.a.	25
1982	n.a.	84	0	0	0	0	n.a.	0	0	n.a.	90
1983	n.a.	254	0	0	0	0	n.a.	0	0	n.a.	210
1984	n.a.	653	0	0	0	0	n.a.	0	0	n.a.	600
1985	n.a.	945	0	0	0	0	n.a.	0	0	n.a.	1,020
1986	n.a.	1,265	0	0	0	0	n.a.	0	0	n.a.	1,270
1987	n.a.	1,333	5	0	0	0	n.a.	0	0	n.a.	1,450
1988	n.a.	1,231	15	0	0	0	n.a.	0	0	n.a.	1,580
1989	n.a.	1,332	27	0	0	0	n.a.	0	0	n.a.	1,730
1990	n.a.	1,484	62	0	0	0	n.a.	0	0	n.a.	1,930
1991	n.a.	1,709	112	5	39	4	n.a.	0	1	n.a.	2,170
1992	n.a.	1,680	180	50	39	69	n.a.	0	3	n.a.	2,510
1993	n.a.	1,635	335	60	79	n.a.	n.a.	2	6	n.a.	2,990
1994	n.a.	1,663	643	70	185	n.a.	n.a.	n.a.	18	n.a.	3,490
1995	38	1,612	1,130	140	576	200	n.a.	3	32	n.a.	4,780
1996	79	1,614	1,548	230	820	273	n.a.	6	70	n.a.	6,100
1997	170	1,611	2,080	512	940	319	n.a.	10	103	n.a.	7,600
1998	224	1,837	2,875	834	1,015	333	n.a.	19	180	n.a.	10,200
1999	268	2,472	4,442	1,812	1,077	362	n.a.	25	277	n.a.	13,600
2000	346	2,539	6,113	2,235	1,220	406	n.a.	66	427	n.a.	17,400
2001	404	4,275	8,754	3,337	1,456	474	198	93	690	n.a.	23,900
2002	470	4,685	11,994	4,825	1,702	552	236	148	797	n.a.	31,100
2003	568	6,372	14,609	6,203	2,125	648	322	253	913	n.a.	39,431
2004	765	6,725	16,629	8,263	3,000	888	444	390	1,255	n.a.	47,620
2005	1,272	9,149	18,415	10,027	4,430	1,353	684	757	1,717	29	59,091
2006	2,559	11,575	20,622	11,623	6,270	1,968	1,460	1,567	2,123	237	73,949
2007	5,910	16,725	22,247	15,145	7,845	2,428	1,846	2,454	2,726	247	93,901
2008	12,020	25,076	23,903	16,689	9,655	3,161	2,369	3,404	3,736	341	120,715
2009	25,805	35,086	25,777	19,160	10,926	4,257	3,319	4,574	4,850	606	159,079
2010	44,733	40,298	27,214	20,623	13,065	5,259	4,008	5,970	5,797	927	197,943
2011	62,364	46,929	29,060	21,674	16,084	6,593	5,265	6,800	6,885	1,431	238,435
2012	75,324	60,007	31,308	22,784	18,421	8,649	6,204	7,623	8,131	2,508	283,132
2013	91,413	61,110	34,250	22,959	20,150	10,711	7,823	8,243	8,558	3,466	318,644
2014	114,609	65,879	39,165	22,987	22,465	12,440	9,694	9,285	8,663	5,939	369,597

Note: n.a. = data not available. Sum of individual country totals may not match world total because data are from different sources.

Source: Compiled by Earth Policy Institute with world data from Janet L. Sawin, "Wind Power Still Soaring," in Worldwatch Institute, *Vital Signs 2007-2008* (New York: W. W. Norton & Company, 2007); Global Wind Energy Council (GWEC), *Global Wind Report: Annual Market Update 2013* (Brussels: April 2014); GWEC, *Global Wind Report: Annual Market Update 2014* (Brussels: April 2015). Country data from Worldwatch Institute, *Signposts 2001*, CD-ROM (Washington, DC: 2001); Chinese Renewable Energy Industries Association (CREIA), *China Wind Power Report 2007* (Beijing: China Environmental Science Press, 2007); GWEC, *Global Wind Report: Annual Market Update* (Brussels: various years); European Wind Energy Association (EWEA), *Wind Energy - The Facts* (Brussels: 1999 and 2004); François Demarcq, "Perspectives in France for the Coming Ten Years: WIND ENERGY," in *1999 European Wind Energy Conference* (Nice, France: 1999); British Wind Energy Association, *Wind Energy in the UK* (London: 2008); Associazione Nazionale Energia del Vento, "Installed Power Until 1999," email to Amy Heinzerling, Earth Policy Institute, 22 September 2009; EWEA, "Wind Energy Development in the EU 1998 to 2009," table downloaded from www.ewea.org/index.php?id=180, 12 February 2010.

Cumulative Installed Wind Power Capacity in Leading Countries, 1980-2014



Source: EPI from GWEC, Worldwatch, CREIA, EWEA, BWEA

New and Cumulative Installed Wind Power Capacity in Top 10 Countries, 2014

<u>Country</u>	<u>New Capacity</u> Megawatts	<u>Country</u>	<u>Cumulative Capacity</u> Megawatts
China	23,196	China	114,609
Germany	5,279	United States	65,879
United States	4,854	Germany	39,165
Brazil	2,472	Spain	22,987
India	2,315	India	22,465
Canada	1,871	United Kingdom	12,440
United Kingdom	1,736	Canada	9,694
Sweden	1,050	France	9,285
France	1,042	Italy	8,663
Turkey	804	Brazil	5,939
<u>World</u>	<u>51,473</u>	<u>World</u>	<u>369,597</u>

Source: Global Wind Energy Council, *Global Wind Report: Annual Market Update 2014* (Brussels: April 2015), p. 8.

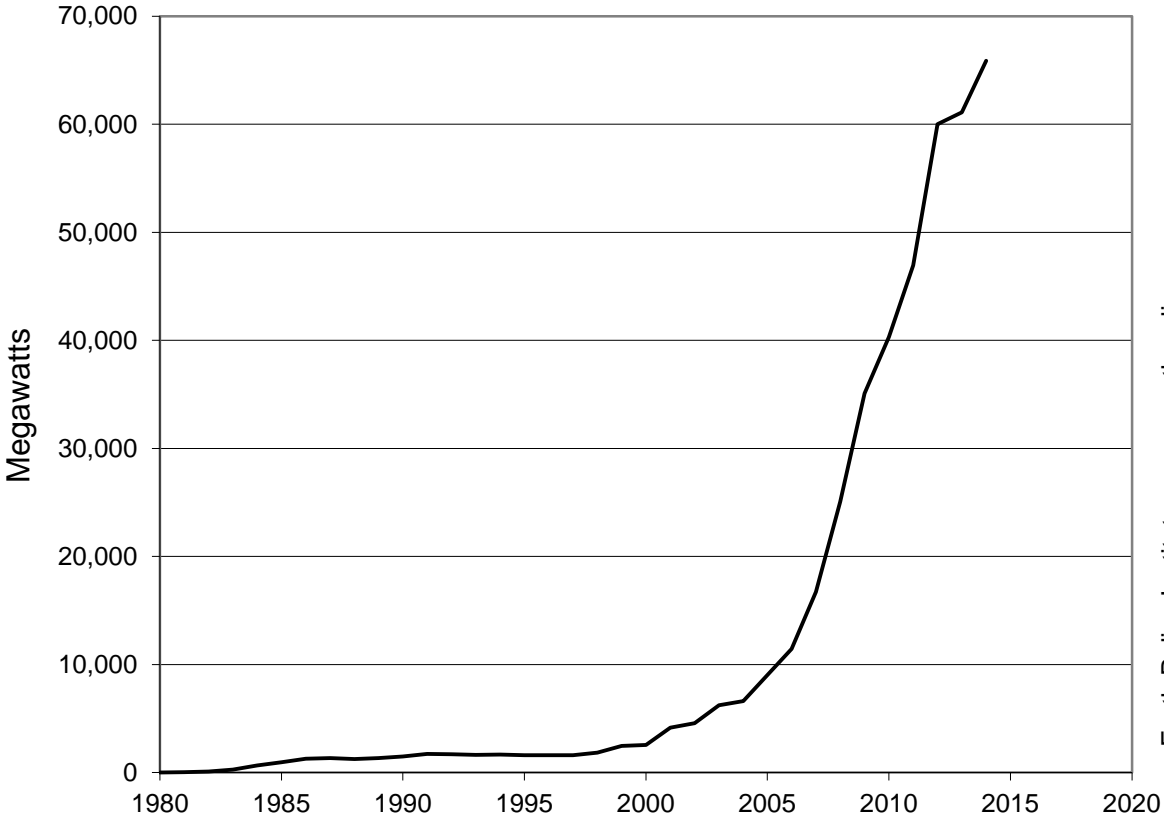
Cumulative Installed Wind Power Capacity and Net Annual Addition in the United States, 1980-2014

Year	Cumulative Installed Capacity	Net Annual Addition*
Megawatts		
1980	8	
1981	18	10
1982	84	66
1983	254	170
1984	653	399
1985	945	292
1986	1,265	320
1987	1,333	68
1988	1,231	-102
1989	1,332	101
1990	1,484	152
1991	1,709	225
1992	1,680	-29
1993	1,635	-45
1994	1,663	28
1995	1,612	-51
1996	1,614	2
1997	1,611	-3
1998	1,837	226
1999	2,472	635
2000	2,539	67
2001	4,147	1,608
2002	4,557	410
2003	6,222	1,665
2004	6,619	397
2005	8,993	2,374
2006	11,450	2,457
2007	16,702	5,252
2008	25,065	8,363
2009	35,068	10,003
2010	40,283	5,215
2011	46,930	6,647
2012	60,012	13,082
2013	61,110	1,098
2014	65,879	4,769

* Net annual addition equals new installations minus retirements.

Source: Compiled by Earth Policy Institute with 1980-1998 data from Worldwatch Institute, *Signposts 2001*, CD-ROM (Washington, DC: 2001); 1999-2000 from U.S. Department of Energy, Office of Energy Efficiency and Renewable Energy, "Wind Powering America: Installed Wind Capacity," at www.windpoweringamerica.gov/wind_installed_capacity.asp, updated 8 November 2012; 2001-2014 from American Wind Energy Association, *U.S. Wind Industry Fourth Quarter 2014 Market Report* (Washington, DC: 28 January 2015), p. 4.

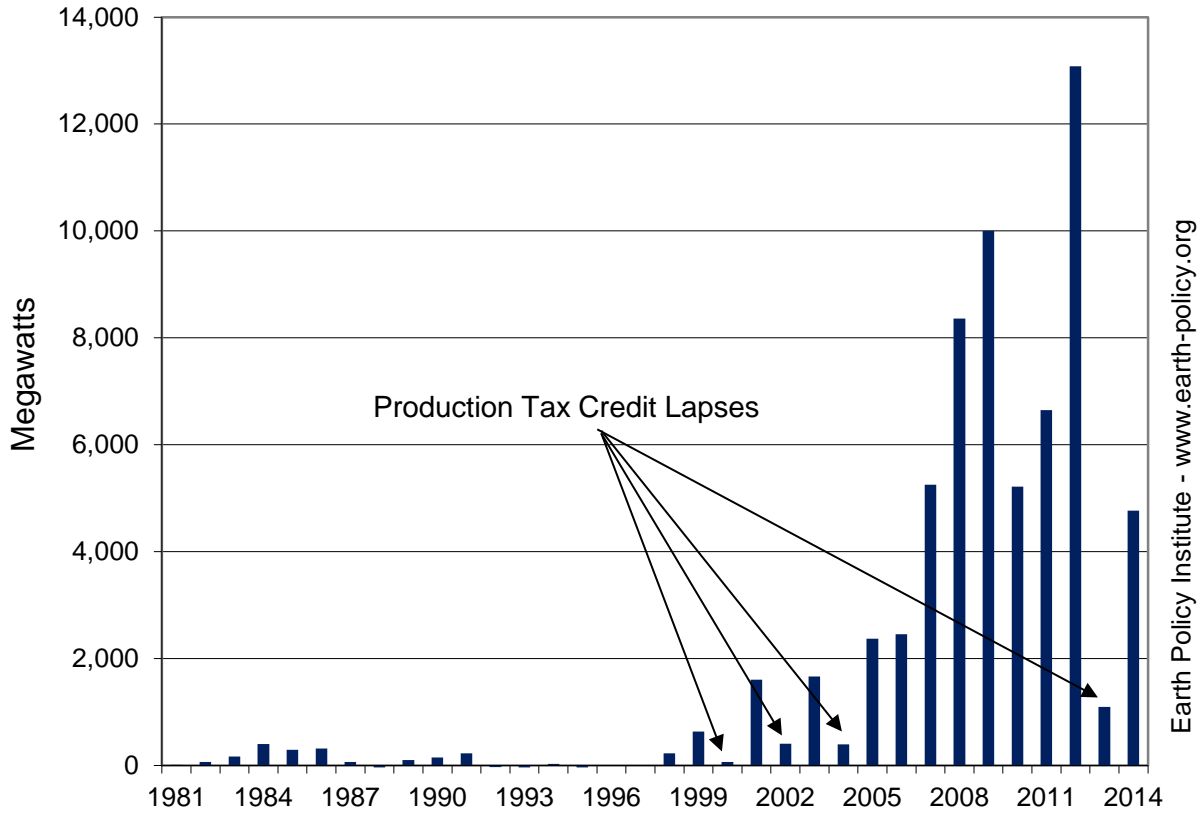
Cumulative Installed Wind Power Capacity in the United States, 1980-2014



Source: EPI from Worldwatch, DOE, AWEA

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Net Annual Installed Wind Power Capacity Additions in the United States, 1981-2014



Source: EPI from Worldwatch, DOE, AWEA

U.S. Cumulative Installed Wind Power Capacity in Top 10 States, 2014

State	Cumulative Installed Capacity Megawatts
Texas	14,098
California	5,917
Iowa	5,688
Oklahoma	3,782
Illinois	3,568
Oregon	3,153
Washington	3,075
Minnesota	3,035
Kansas	2,967
Colorado	2,593

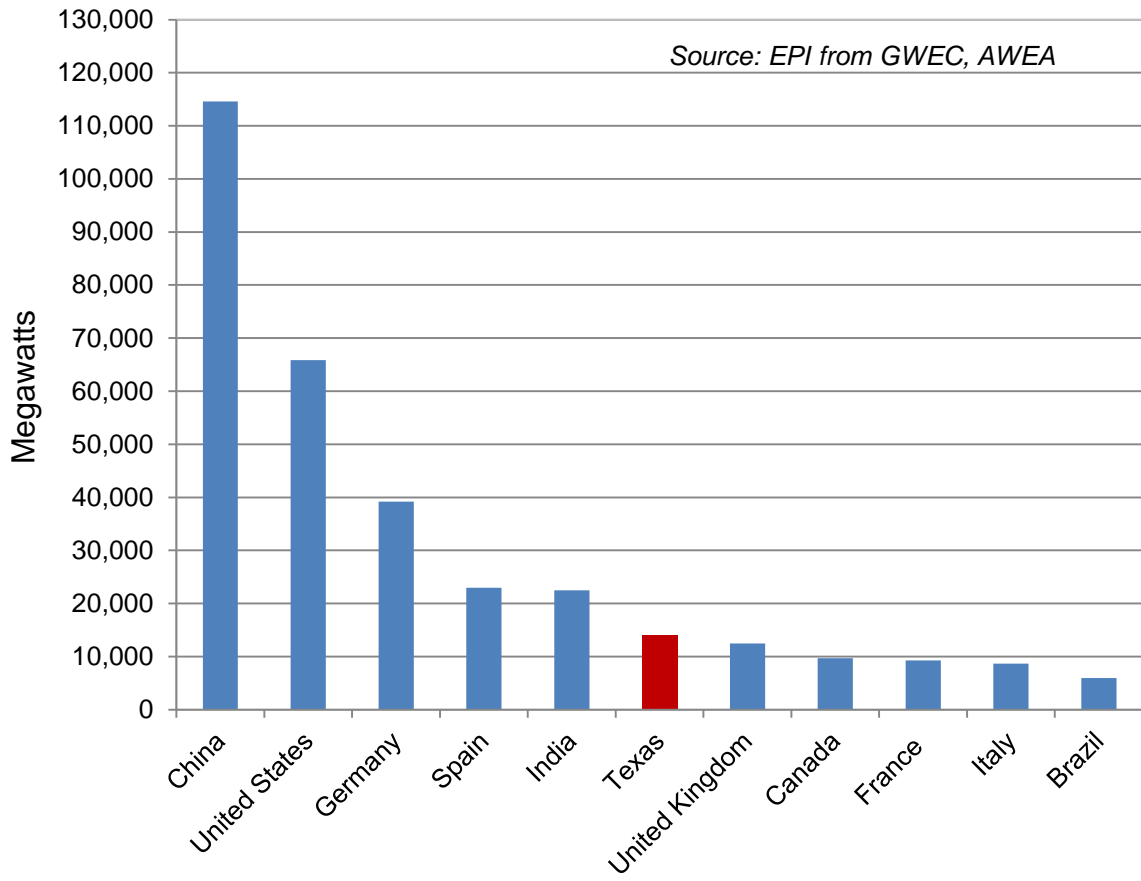
Source: American Wind Energy Association, *U.S. Wind Industry Fourth Quarter 2014 Market Report* (Washington, DC: 28 January 2015), p. 5.

Cumulative Installed Wind Power Capacity in Leading Countries and U.S. States, 2014

<u>Country</u>	<u>Installed Capacity</u> Megawatts
China	114,609
United States	65,879
<i>of which Texas</i>	14,098
<i>California</i>	5,917
<i>Iowa</i>	5,688
Germany	39,165
Spain	22,987
India	22,465
United Kingdom	12,440
Canada	9,694
France	9,285
Italy	8,663
Brazil	5,939

Source: Compiled by Earth Policy Institute with country data from Global Wind Energy Council, *Global Wind Report: Annual Market Update 2014* (Brussels: April 2015), p. 8; Texas, California, and Iowa from American Wind Energy Association, *AWEA U.S. Wind Industry Fourth Quarter 2014 Market Report* (Washington, DC: 28 January 2015).

Cumulative Installed Wind Power Capacity in Leading Countries and Texas, 2014

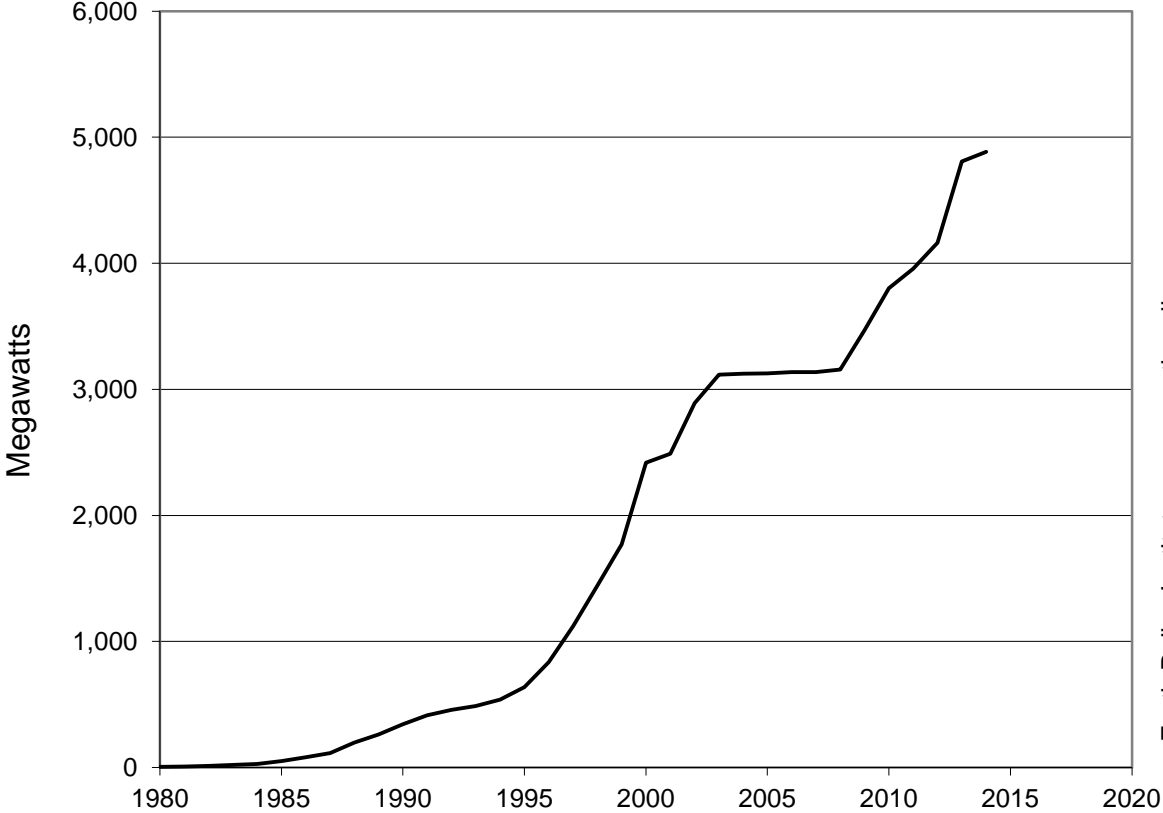


Cumulative Installed Wind Power Capacity in Denmark, 1980-2014

Year	Cumulative Installed Wind Power Capacity Megawatts
1980	5
1981	7
1982	12
1983	20
1984	27
1985	50
1986	82
1987	115
1988	197
1989	262
1990	343
1991	413
1992	458
1993	487
1994	539
1995	637
1996	835
1997	1,120
1998	1,443
1999	1,771
2000	2,417
2001	2,489
2002	2,889
2003	3,115
2004	3,123
2005	3,127
2006	3,136
2007	3,136
2008	3,158
2009	3,468
2010	3,801
2011	3,956
2012	4,162
2013	4,807
2014	4,883

Source: Compiled by Earth Policy Institute from Worldwatch Institute, *Signposts 2001*, CD-ROM (Washington, DC: 2001); and from Global Wind Energy Council (GWEC), *Global Wind Report: Annual Market Update* (Brussels: various years).

Cumulative Installed Wind Power Capacity in Denmark, 1980-2014



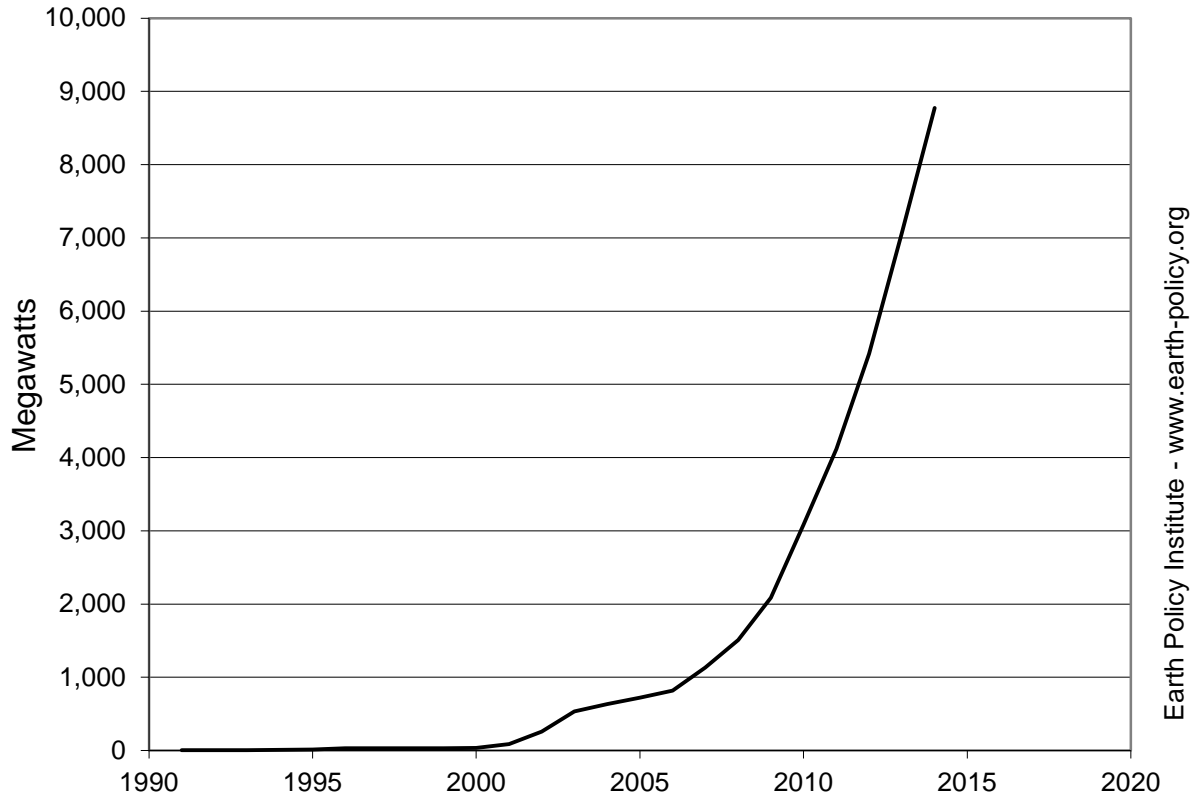
Source: EPI from Worldwatch, GWEC

World Cumulative Installed Offshore Wind Power Capacity and Annual Addition, 1991-2014

Year	Cumulative Installed Capacity	Annual Addition
	Megawatts	
1991	5	5
1992	5	0
1993	5	0
1994	7	2
1995	12	5
1996	29	17
1997	29	0
1998	32	3
1999	32	0
2000	36	4
2001	86	51
2002	256	170
2003	532	276
2004	633	101
2005	723	90
2006	816	93
2007	1,134	318
2008	1,507	373
2009	2,084	577
2010	3,083	999
2011	4,120	1,037
2012	5,415	1,295
2013	7,062	1,647
2014	8,775	1,713

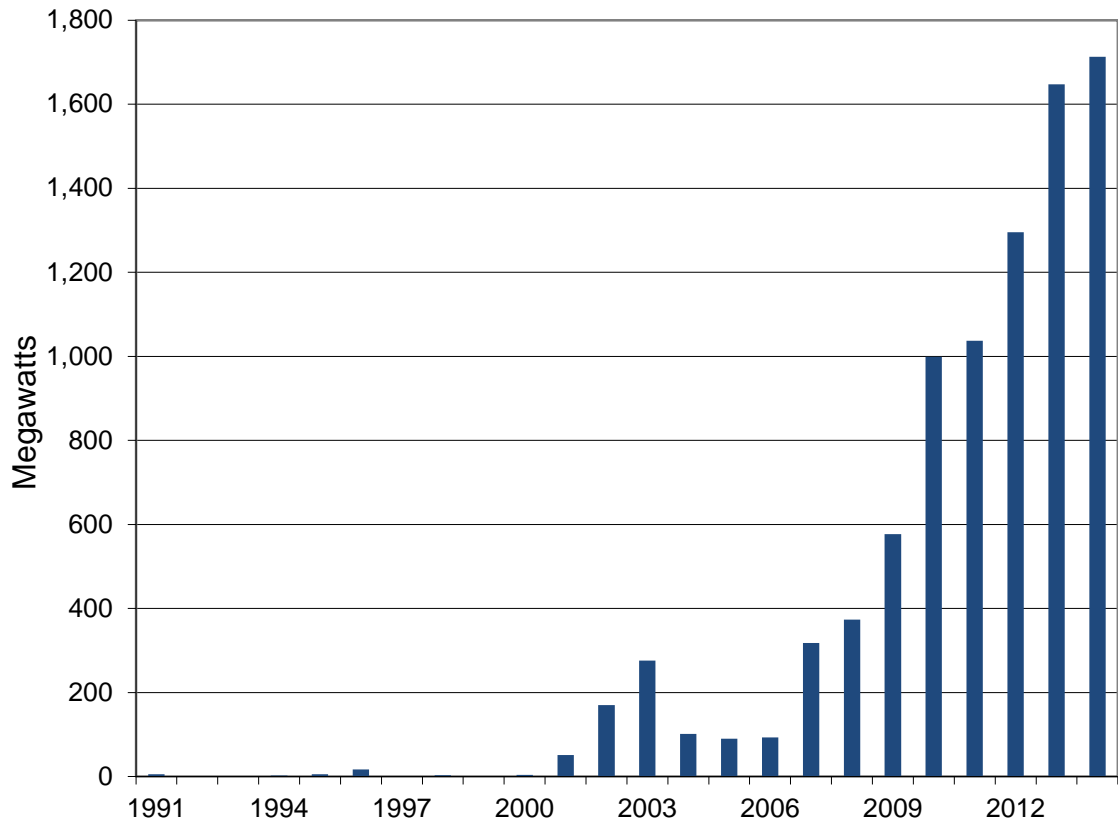
Source: Compiled by Earth Policy Institute with data through 2011 from European Wind Energy Association (EWEA), *Wind in Our Sails: The Coming of Europe's Offshore Wind Energy Industry* (Brussels: 2011), pp. 11-12; Global Wind Energy Council (GWEC), *Global Wind Report: Annual Market Update 2012* (Brussels: April 2013), p. 41; and 4C Offshore, *Offshore Wind Database*, electronic database, at www.4coffshore.com/windfarms/windfarms.aspx, viewed 21 October 2013. Data for 2012-2014 from GWEC, *Global Wind Report: Annual Market Update 2013* (Brussels: April 2014), p. 55; GWEC, *Global Wind Report: Annual Market Update 2014* (Brussels: April 2015), p. 55; Sara ver Bruggen, "South-East Asia Boosted by Thailand's Arrival," *Windpower Monthly*, 1 April 2014; and Navigant Consulting, *Offshore Wind Market and Economic Analysis: Annual Market Assessment* (Burlington, MA: October 2013), p. 1.

World Cumulative Installed Offshore Wind Power Capacity, 1991-2014



Source: EPI from EWEA, GWEC, 4C Offshore, WPM, Navigant

World Annual Installed Offshore Wind Power Capacity, 1991-2014



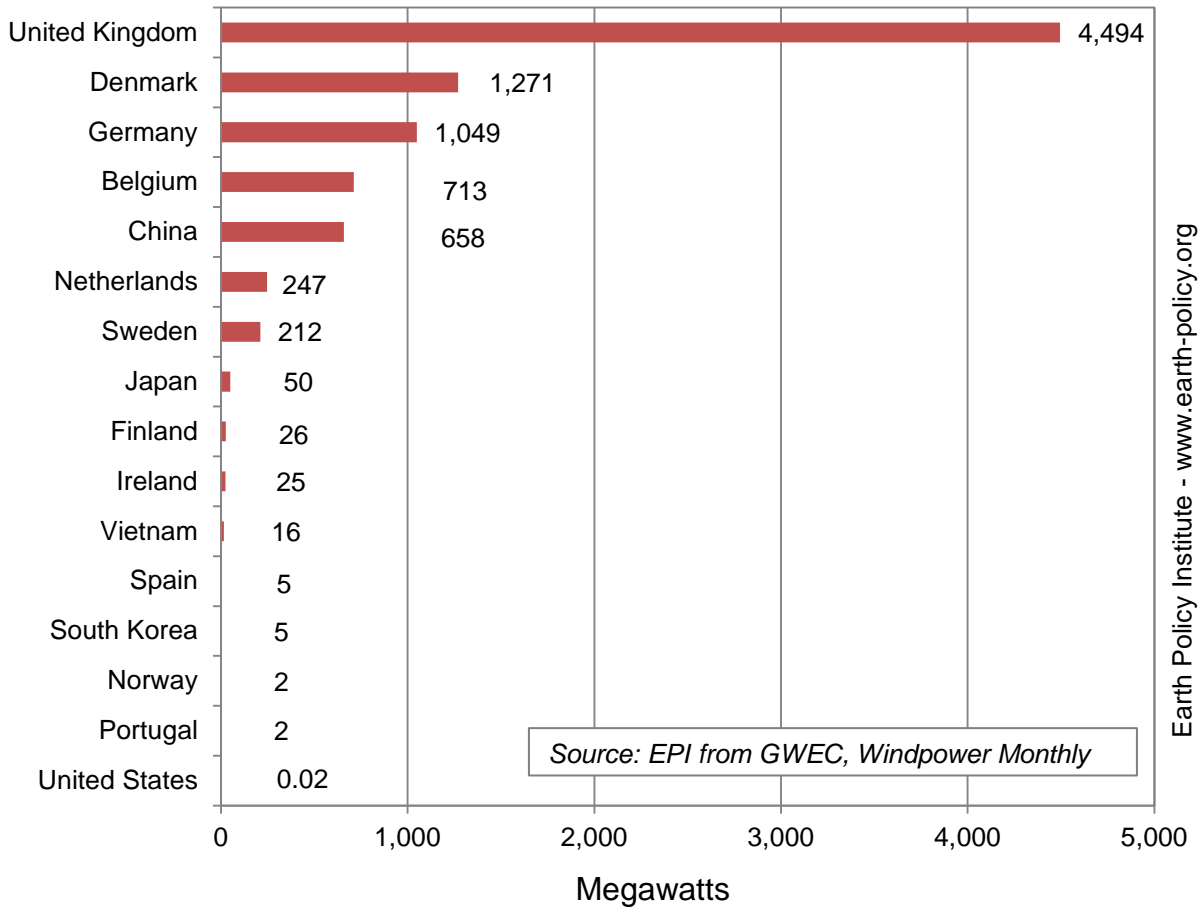
Source: EPI from EWEA, GWEC, 4C Offshore, WPM, Navigant

Cumulative Installed Offshore Wind Power Capacity by Country, 2014

Country	Cumulative Installed Capacity Megawatts
United Kingdom	4,494
Denmark	1,271
Germany	1,049
Belgium	713
China	658
Netherlands	247
Sweden	212
Japan	50
Finland	26
Ireland	25
Vietnam	16
Spain	5
South Korea	5
Norway	2
Portugal	2
United States	0.02
Total	8,775

Source: Compiled by Earth Policy Institute from Global Wind Energy Council, *Global Wind Report: Annual Market Update 2014* (Brussels: April 2015), p. 55; Vietnam from Sara ver Bruggen, "South-East Asia Boosted by Thailand's Arrival," *Windpower Monthly*, 1 April 2014.

Cumulative Installed Offshore Wind Power Capacity by Country, 2014

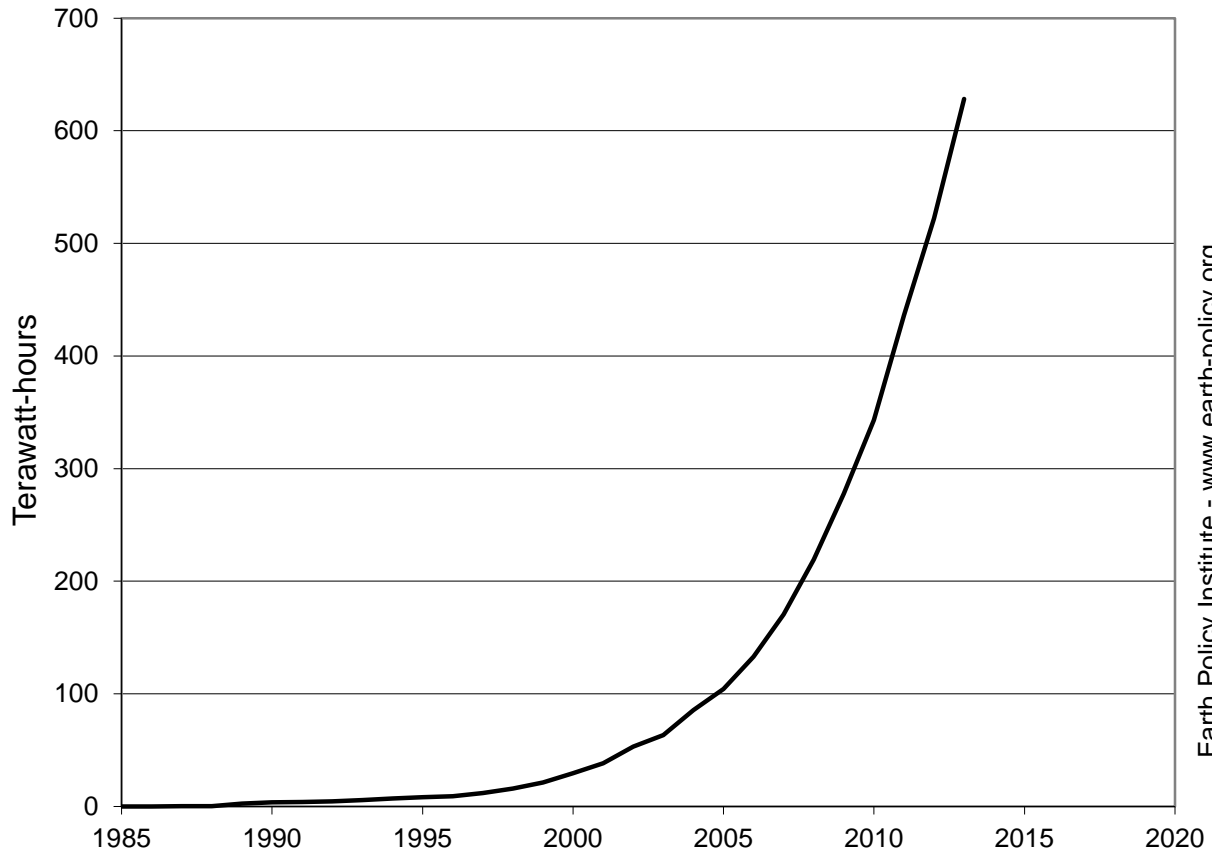


World Wind-generated Electricity, 1985-2013

Year	Wind-generated Electricity Terawatt-hours
1985	0.1
1986	0.1
1987	0.2
1988	0.3
1989	2.7
1990	3.6
1991	4.1
1992	4.7
1993	5.7
1994	7.1
1995	8.3
1996	9.2
1997	12.0
1998	16.0
1999	21.2
2000	29.5
2001	38.5
2002	53.0
2003	63.4
2004	85.6
2005	104.3
2006	133.1
2007	170.6
2008	219.1
2009	277.8
2010	343.2
2011	435.9
2012	522.1
2013	628.2

Source: Compiled by Earth Policy Institute from BP, *Statistical Review of World Energy June 2014* (London: 2014).

World Wind-generated Electricity, 1985-2013



Source: BP

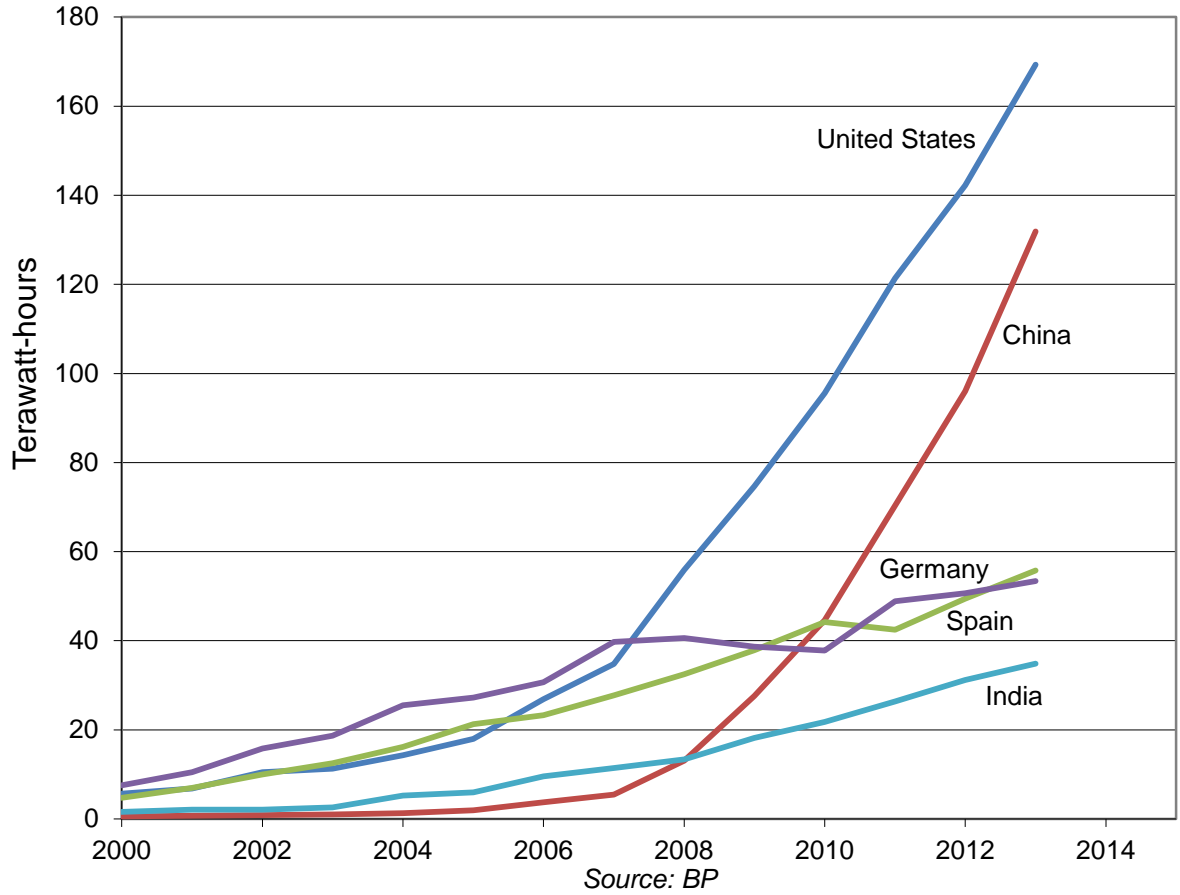
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Wind-generated Electricity in Top Five Countries and the World, 2000-2013

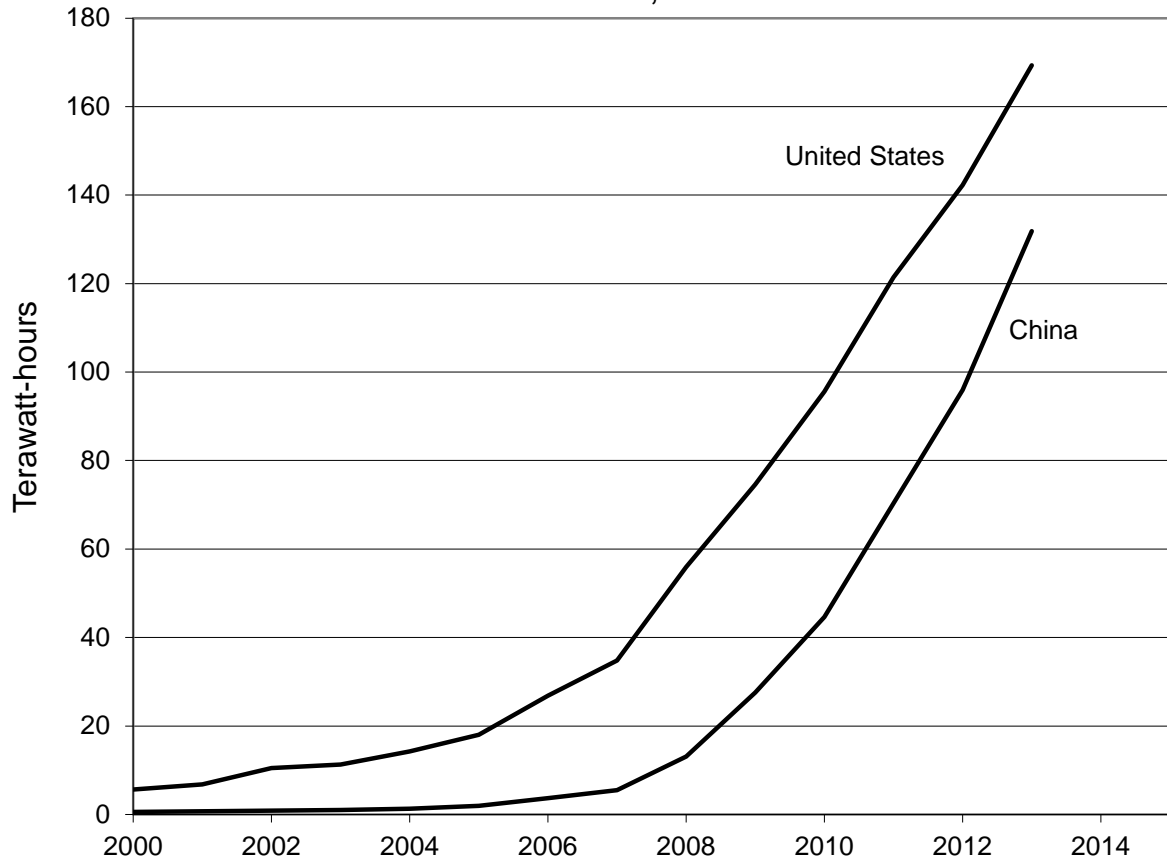
Year	United States	China	Spain	Germany	India	World Total
	Terawatt-hours					
2000	6	1	5	8	2	29
2001	7	1	7	11	2	38
2002	10	1	10	16	2	53
2003	11	1	12	19	3	63
2004	14	1	16	26	5	86
2005	18	2	21	27	6	104
2006	27	4	23	31	10	133
2007	35	5	28	40	11	171
2008	56	13	32	41	13	219
2009	75	28	38	39	18	278
2010	96	45	44	38	22	343
2011	121	70	42	49	26	436
2012	142	96	49	51	31	522
2013	169	132	56	53	35	628

Source: Compiled by Earth Policy Institute from BP, *Statistical Review of World Energy June 2014* (London: 2014).

Wind-generated Electricity in Top Five Countries, 2000-2013

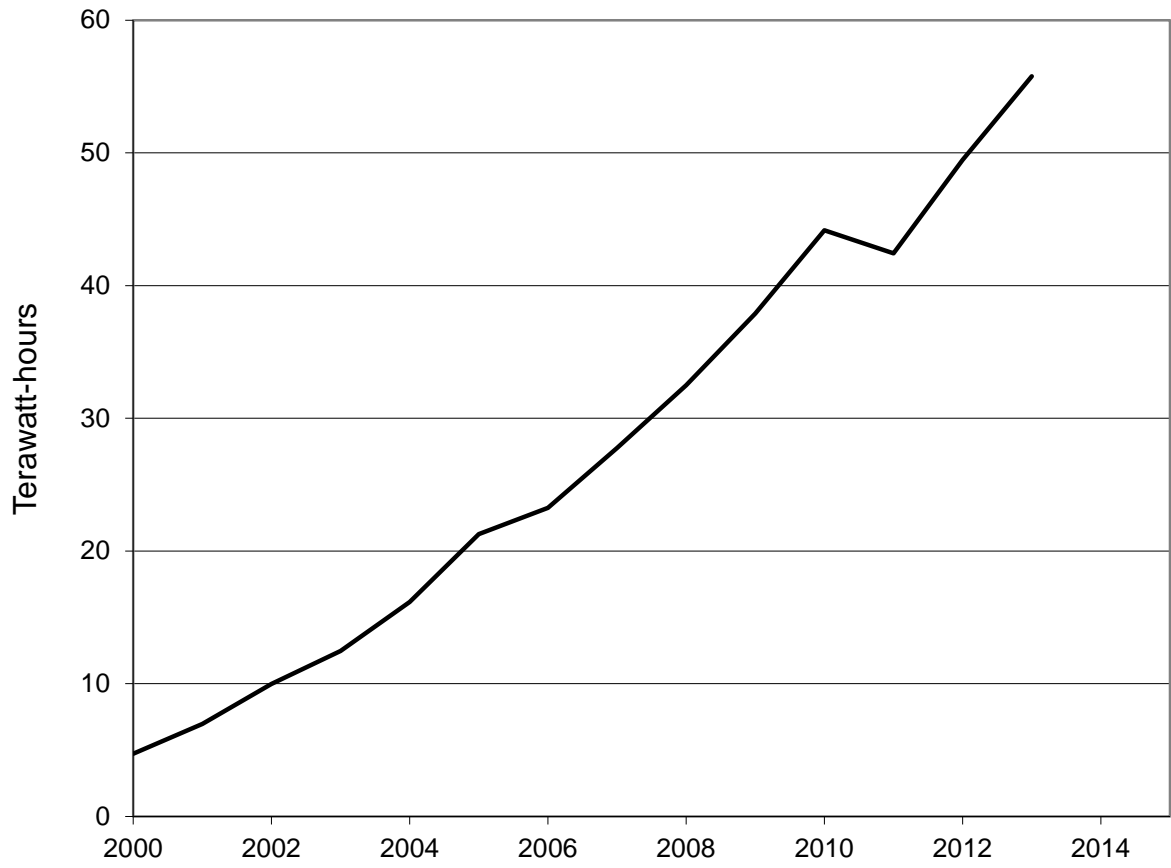


Wind-generated Electricity in China and the United States, 2000-2013



Source: BP

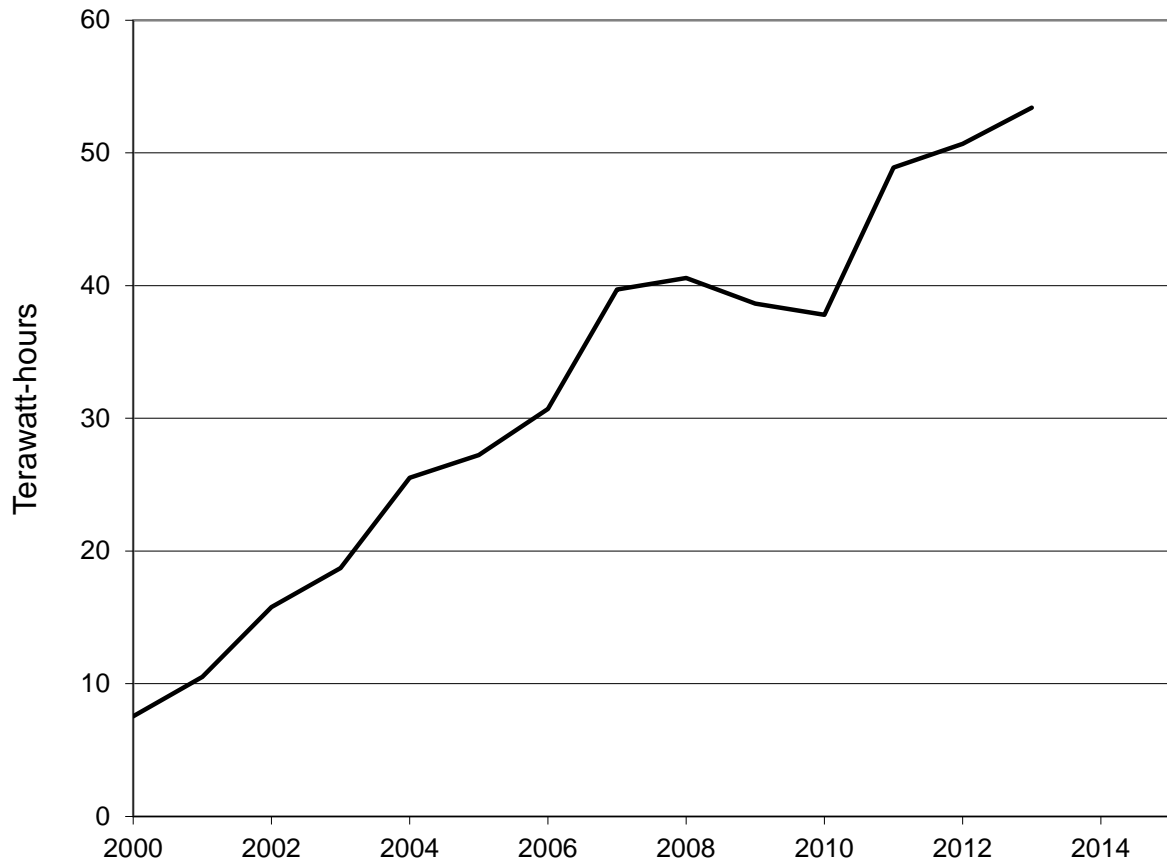
Wind-generated Electricity in Spain, 2000-2013



Source: BP

Earth Policy Institute - www.earth-policy.org

Wind-generated Electricity in Germany, 2000-2013



Source: BP

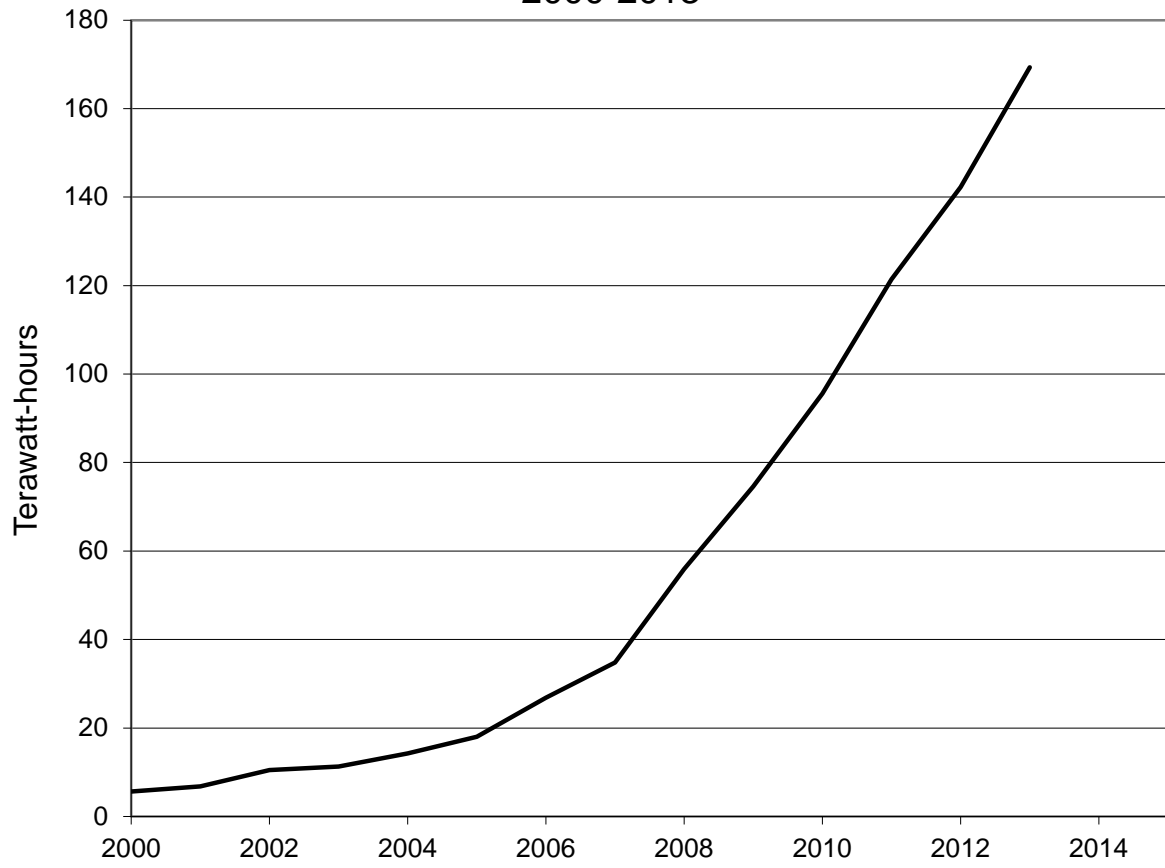
Earth Policy Institute - www.earth-policy.org

Wind-generated Electricity in the United States, 2000-2013

Year	Wind-generated Electricity Terawatt-hours
2000	6
2001	7
2002	10
2003	11
2004	14
2005	18
2006	27
2007	35
2008	56
2009	75
2010	96
2011	121
2012	142
2013	169

Source: BP, *Statistical Review of World Energy June 2014* (London: 2014).

Wind-generated Electricity in the United States, 2000-2013



Source: BP

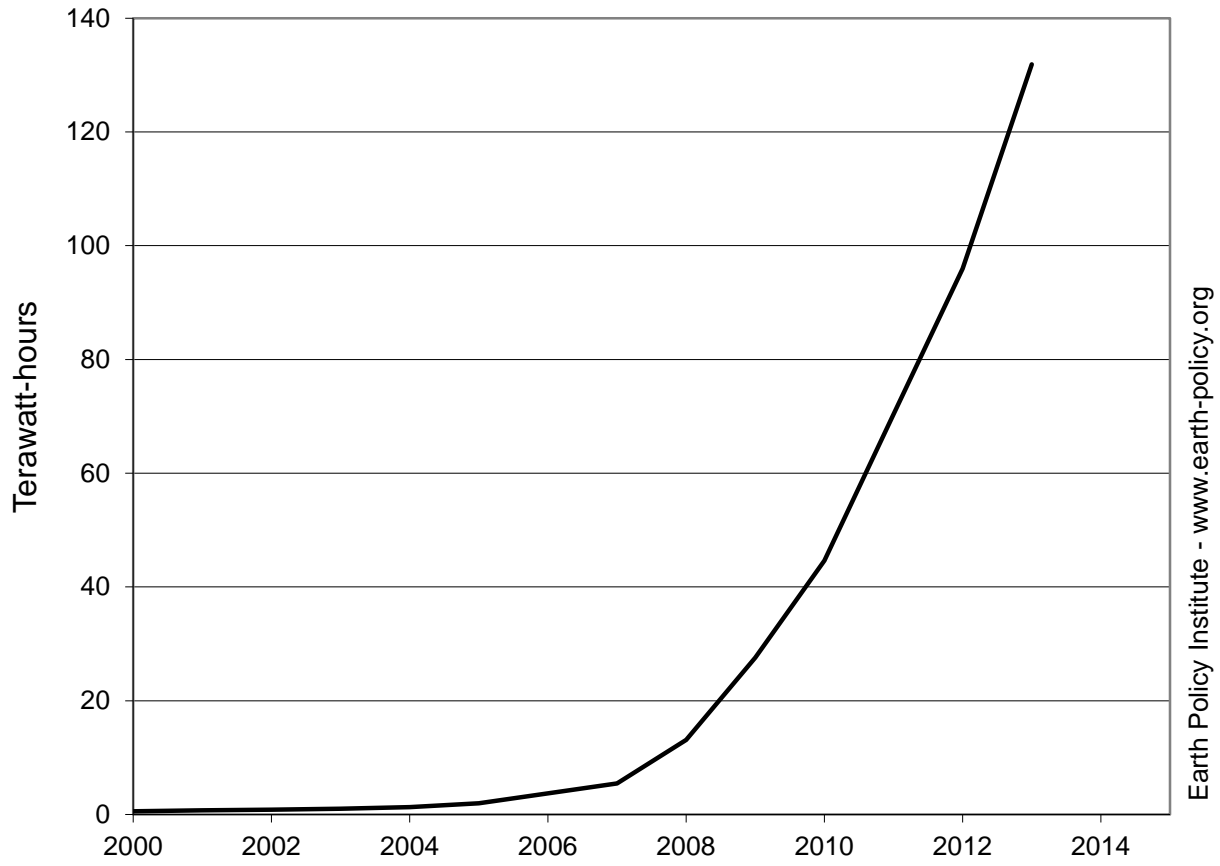
Earth Policy Institute - www.earth-policy.org

Wind-generated Electricity in China, 2000-2013

Year	Wind-generated Electricity Terawatt-hours
2000	1
2001	1
2002	1
2003	1
2004	1
2005	2
2006	4
2007	5
2008	13
2009	28
2010	45
2011	70
2012	96
2013	132

Source: BP, *Statistical Review of World Energy June 2014* (London: 2014).

Wind-generated Electricity in China, 2000-2013



Source: BP

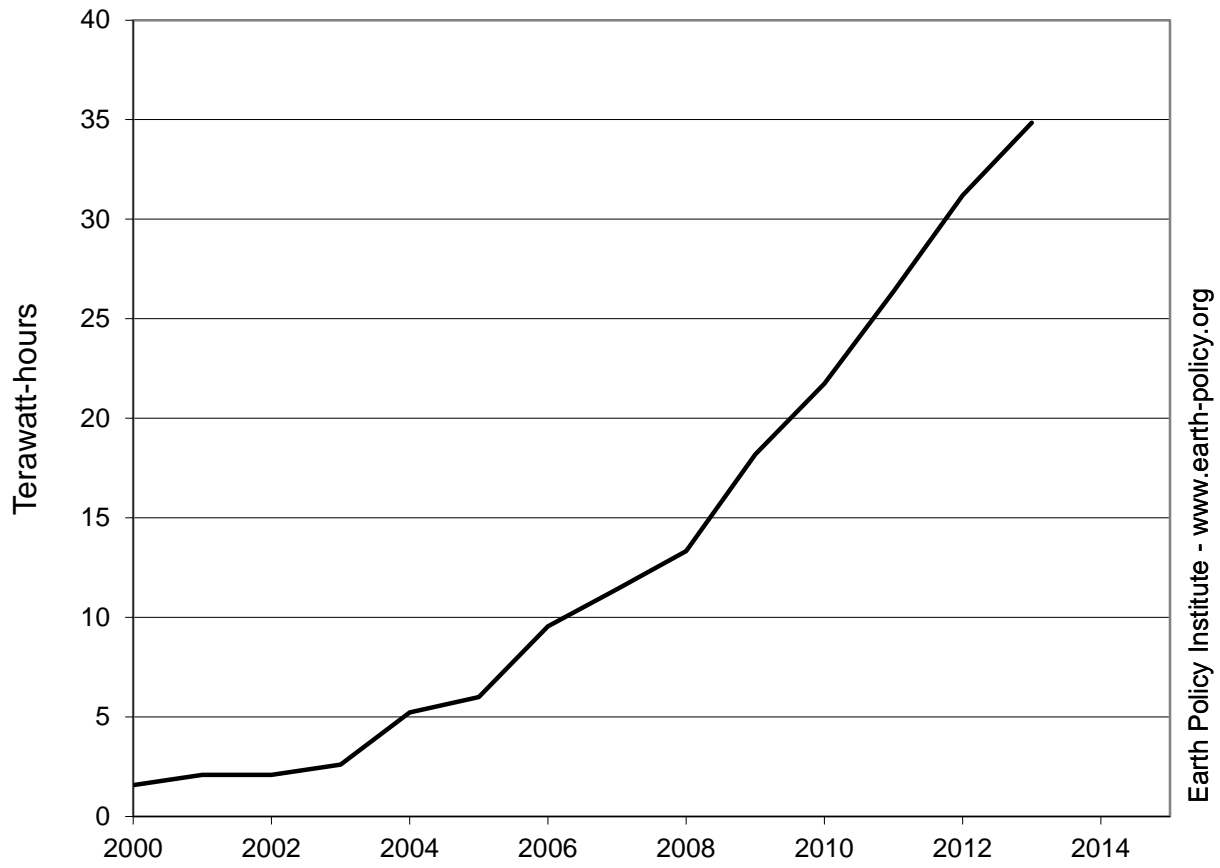
Earth Policy Institute - www.earth-policy.org

Wind-generated Electricity in India, 2000-2013

Year	Wind-generated Electricity Terawatt-hours
2000	2
2001	2
2002	2
2003	3
2004	5
2005	6
2006	10
2007	11
2008	13
2009	18
2010	22
2011	26
2012	31
2013	35

Source: BP, *Statistical Review of World Energy June 2014* (London: 2014).

Wind-generated Electricity in India, 2000-2013



Source: BP

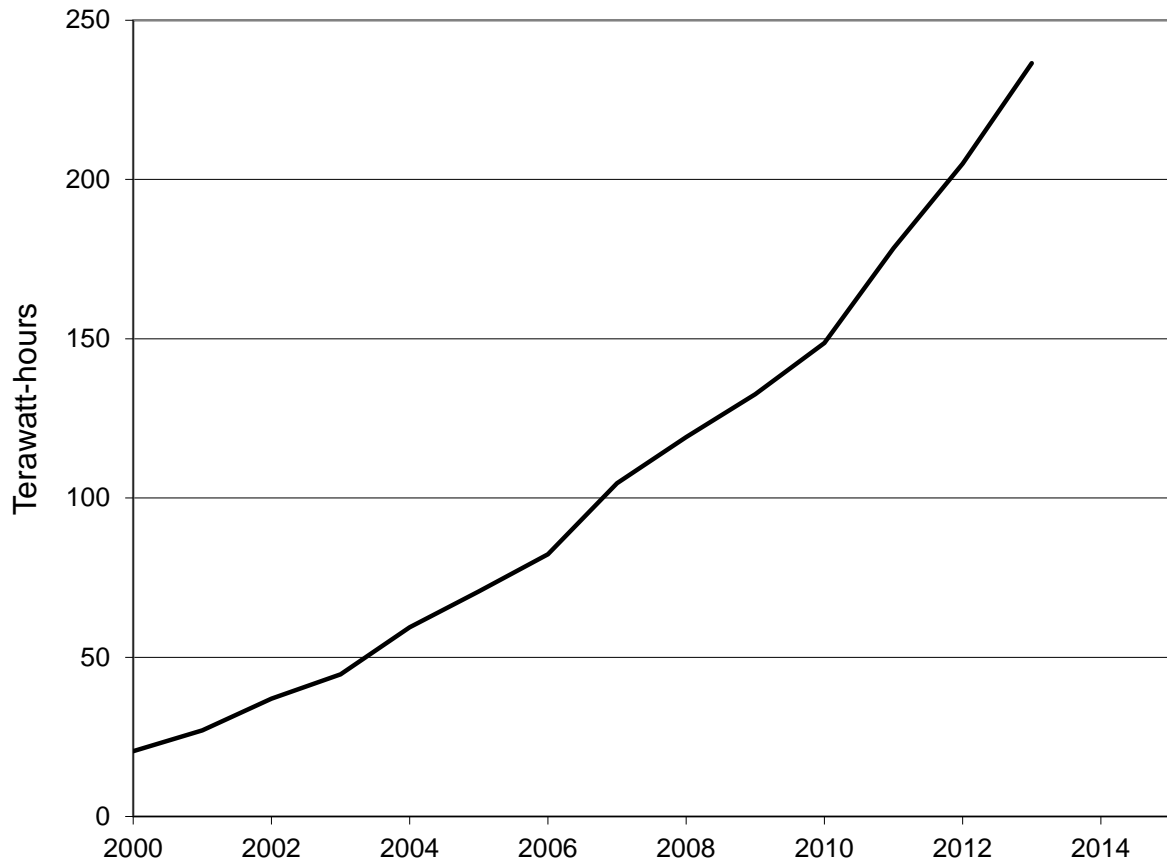
Earth Policy Institute - www.earth-policy.org

Wind-generated Electricity in the European Union, 2000-2013

Year	Wind-generated Electricity Terawatt-hours
2000	20
2001	27
2002	37
2003	45
2004	59
2005	71
2006	82
2007	105
2008	119
2009	133
2010	149
2011	178
2012	205
2013	236

Source: BP, *Statistical Review of World Energy June 2014* (London: 2014).

Wind-generated Electricity in the European Union, 2000-2013



Source: BP

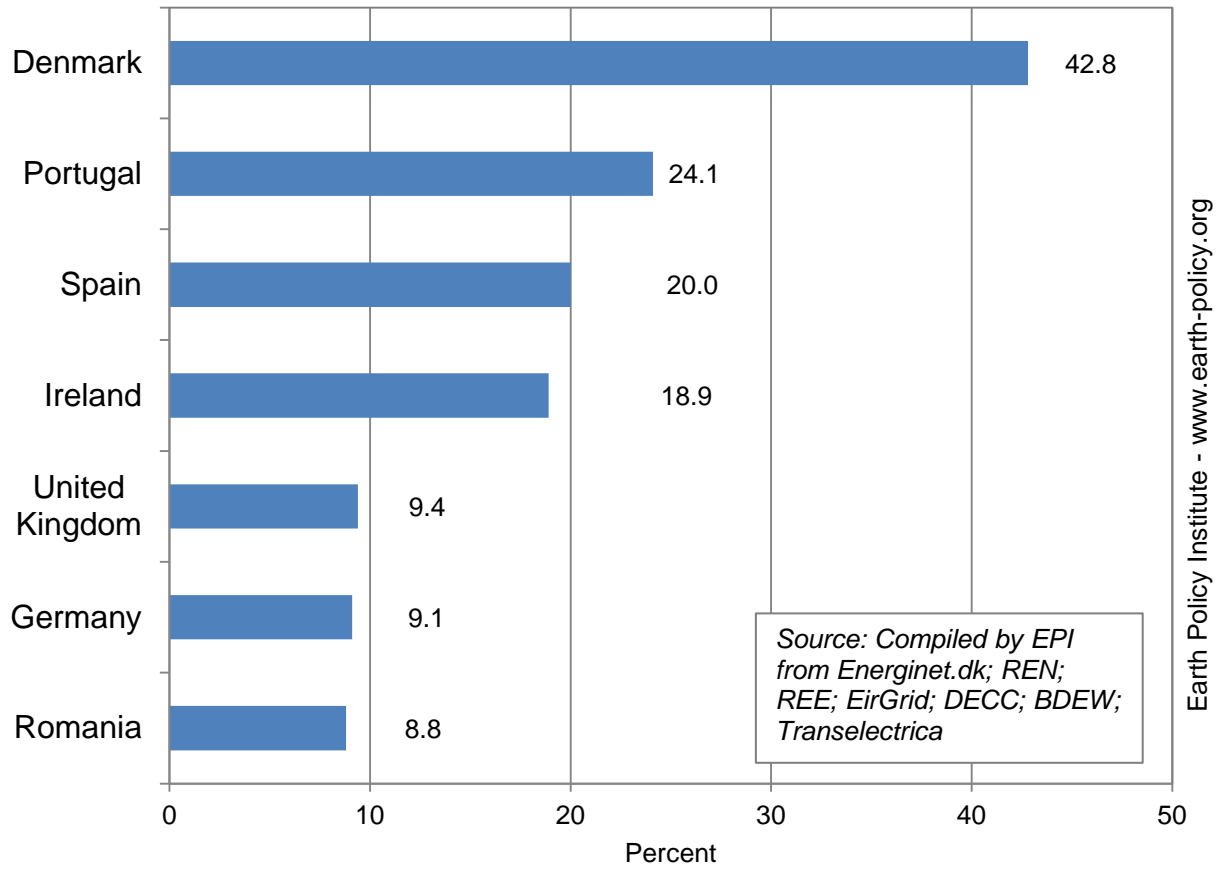
Earth Policy Institute - www.earth-policy.org

Wind Share of Electricity Generation in Leading Countries, 2014

Country	Wind Share of Electricity Generation Percent
Denmark	42.8
Portugal	24.1
Spain	20.0
Ireland	18.9
United Kingdom	9.4
Germany	9.1
Romania	8.8

Source: Calculated and/or compiled by Earth Policy Institute with Denmark from Energinet.dk, "Download of Market Data," at www.energinet.dk/EN/EI/Engrosmarked/Udtraek-af-markedsdata/Sider/default.aspx, updated 4 March 2015; Portugal from Redes Energéticas Nacionais, *Sistema Eletroprodutor Informação Mensal Dezembro 2014* (Lisbon: 30 January 2015), pp. 3, 7; Spain from Red Eléctrica de España, "Statistical Series," at www.ree.es/en/publications/indicators-and-statistical-data/statistical-series, updated 20 January 2015; Ireland from EirGrid, "All-Island Wind and Fuel Mix Report," at www.eirgrid.com/operations/systemperformancedata/all-islandwindandfuelmixreport/, viewed 11 March 2015; United Kingdom from Department of Energy and Climate Change, *Energy Trends* (London: March 2015), pp. 43, 50; Germany from Bundesverband der Energie- und Wasserwirtschaft e.V, "Renewable Energies Generate More Electricity," press release (Berlin: 6 March 2015); and Romania from Transelectrica, "Graphic Production, Consumption and Balance SEN," at www.transelectrica.ro/widget/web/tel/sen-grafic/-/SENGrafic_WAR_SENGraficportlet, downloaded 13 March 2015.

Wind Share of Electricity Generation in Leading Countries, 2014



Wind Share of Net Electricity Generation by U.S. State, 2013 and 2014

State	Net Generation of Electricity from Wind	
	2013	2014
	Percent	
Iowa	27.5	28.5
South Dakota	26.6	25.3
Kansas	19.5	21.7
Idaho	16.2	18.3
North Dakota	15.8	17.6
Oklahoma	15.2	16.9
Minnesota	16.1	15.9
Colorado	13.6	13.6
Oregon	12.4	12.7
Texas	8.3	9.0
Wyoming	8.4	8.9
Maine	7.5	8.3
New Mexico	6.1	7.0
California	6.4	7.0
Nebraska	4.9	6.9
Montana	6.3	6.5
Washington	6.1	6.3
Hawaii	4.9	5.9
Illinois	4.7	5.0
Vermont	3.4	4.4
Michigan	2.7	3.7
Indiana	3.2	3.0
New York	2.6	2.9
Wisconsin	2.4	2.6
Alaska	2.2	2.5
New Hampshire	2.0	2.1
West Virginia	1.8	1.8
Pennsylvania	1.5	1.6
Utah	1.3	1.5
Missouri	1.3	1.3
Ohio	0.8	0.9
Maryland	0.9	0.9
Nevada	0.7	0.8
Massachusetts	0.6	0.7
Arizona	0.4	0.4
Tennessee	0.1	0.1
New Jersey	0.0	0.0
U.S. Total	4.1	4.4

Note: Net electricity generation refers to a generating facility's total output minus the electricity used to operate the facility.

Source: Calculated by Earth Policy Institute from "State by Sector, Year-to-Date" and "Wind by State by Sector, Year-to-Date," Tables 1.6.B and 1.17.B in U.S. Department of Energy, Energy Information Administration, "Electric Power Monthly," at www.eia.gov/electricity/monthly, updated 4 March 2015.

Wind Share of Net Electricity Generation in Top 10 U.S. States, 2014

