

## Plan B 4.0 - Supporting Data for Chapters 4 and 5 - Wind

### [World Installed Wind Electricity-Generating Capacity, 1980-2008](#)

GRAPH: World Cumulative Installed Wind Electricity-Generating Capacity, 1980-2008

GRAPH: World Net Annual Installed Wind Electricity-Generating Capacity Additions, 1981-2008

### [Cumulative Installed Wind Electricity-Generating Capacity in Leading Countries and the World, 1980-2008](#)

GRAPH: Cumulative Installed Wind Electricity-Generating Capacity in Selected Countries, 1980-2008

### [U.S. Cumulative Installed Wind Electricity-Generating Capacity, 1980-2008](#)

GRAPH: U.S. Cumulative Installed Wind Electricity-Generating Capacity, 1980-2008

GRAPH: U.S. Net Annual Installed Wind Electricity-Generating Capacity Additions, 1981-2008

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

[http://www.earthpolicy.org/index.php?/books/pb4/pb4\\_data](http://www.earthpolicy.org/index.php?/books/pb4/pb4_data)

This is part of a supporting dataset for Lester R. Brown, **Plan B 4.0: Mobilizing to Save Civilization** (New York: W.W. Norton & Company, 2009). For more information and a free download of the book, see Earth Policy Institute on-line at [www.earthpolicy.org](http://www.earthpolicy.org).

## World Installed Wind Electricity-Generating Capacity, 1980-2008

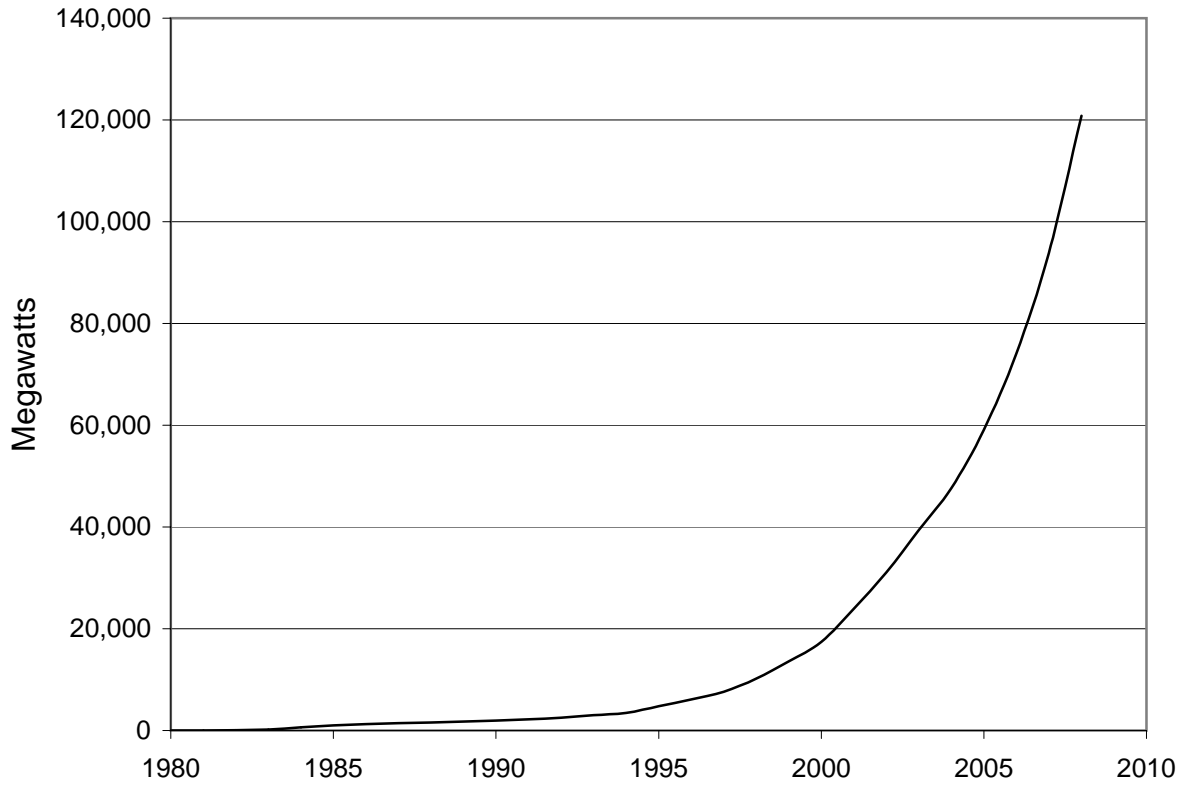
Year	Cumulative Installed Capacity	Net Annual Addition*
	Megawatts	
1980	10	
1981	25	15
1982	90	65
1983	210	120
1984	600	390
1985	1,020	420
1986	1,270	250
1987	1,450	180
1988	1,580	130
1989	1,730	150
1990	1,930	200
1991	2,170	240
1992	2,510	340
1993	2,990	480
1994	3,490	500
1995	4,800	1,310
1996	6,100	1,300
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	74,052	14,961
2007	93,835	19,783
2008	120,798	26,963

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

Source: Compiled by Earth Policy Institute with 1980-1994 data from Worldwatch Institute, *Signposts 2004*, CD-ROM (Washington, DC: 2004); 1995 data from Global Wind Energy Council (GWEC), *Global Wind 2006 Report* (Brussels: 2007), p. 8; 1996-2007 data from GWEC, *Global Wind 2008 Report* (Brussels: 2009), p. 10.

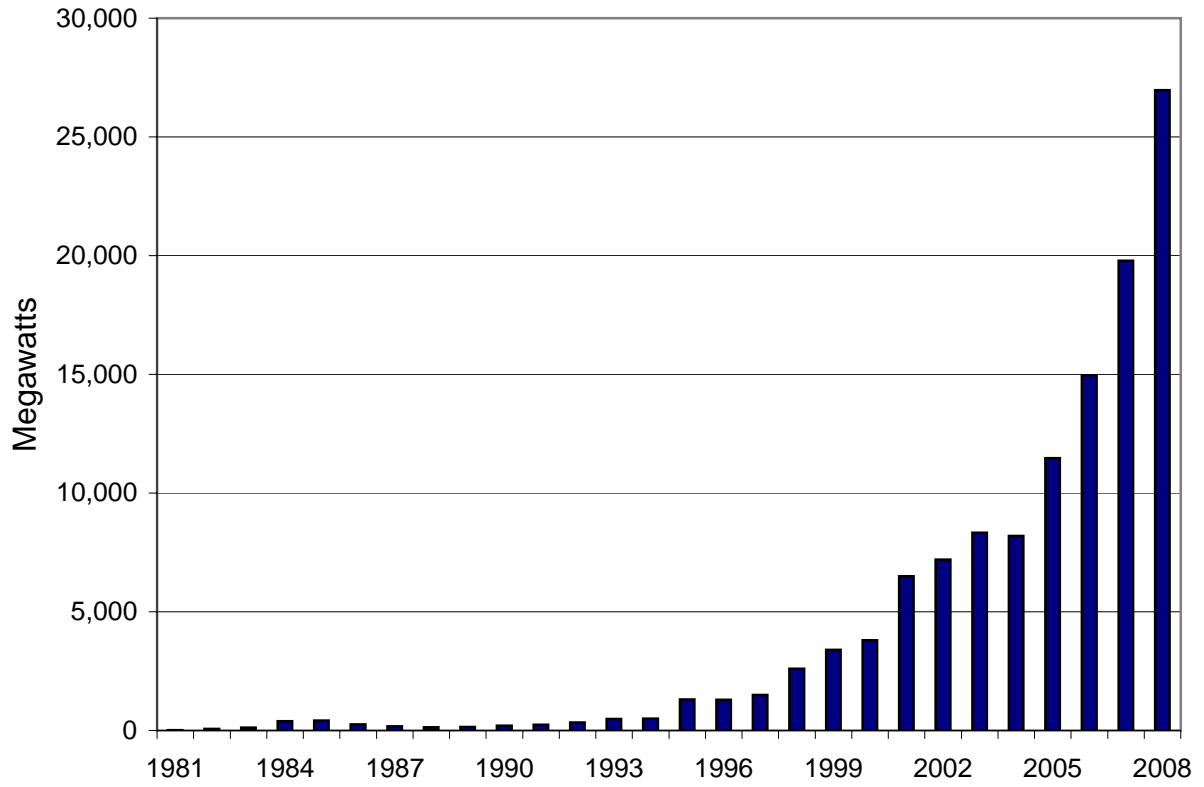
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# World Cumulative Installed Wind Electricity-Generating Capacity, 1980-2008



Source: GWEC; Worldwatch

## World Net Annual Installed Wind Electricity-Generating Capacity Additions, 1981-2008



Source: GWEC; Worldwatch

## Cumulative Installed Wind Electricity-Generating Capacity in Leading Countries and the World, 1980-2008

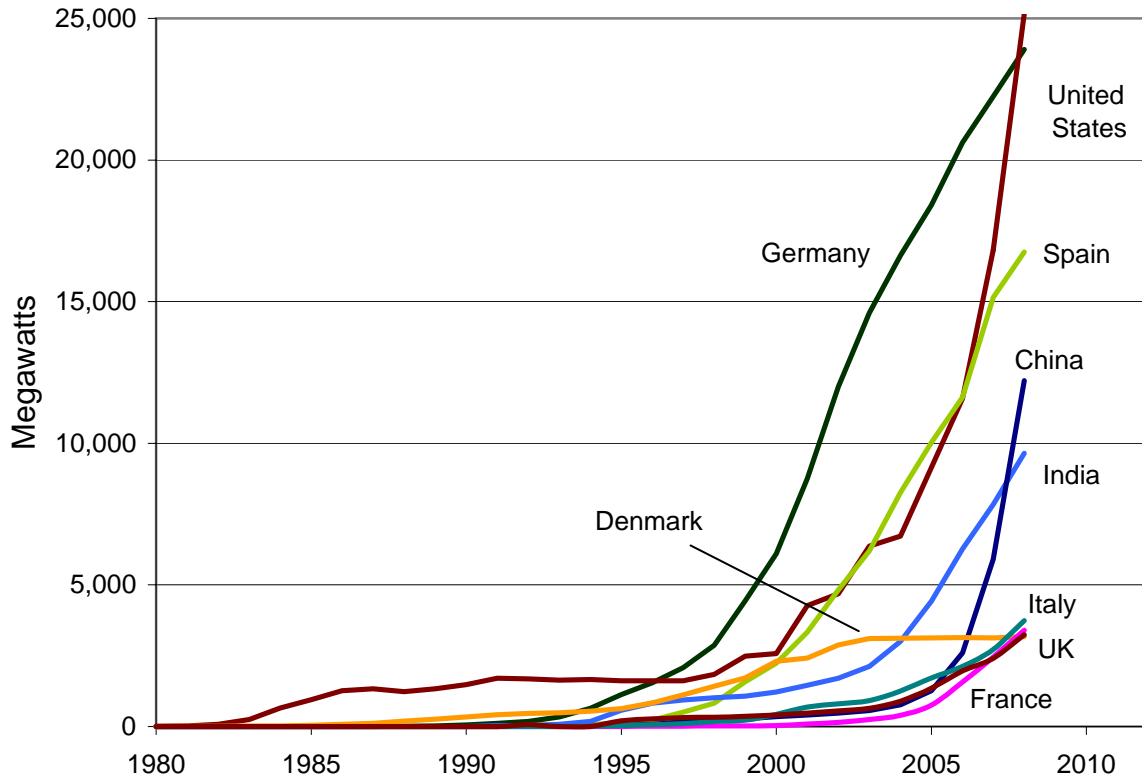
Year	U.S.	Germany	Spain	China	India	Italy	France	U.K.	Denmark	World
----- Megawatts -----										
1980	8	0	0	n.a.	0	0	0	0	5	10
1981	18	0	0	n.a.	0	0	0	0	7	25
1982	84	0	0	n.a.	0	0	0	0	12	90
1983	254	0	0	n.a.	0	0	0	0	20	210
1984	653	0	0	n.a.	0	0	0	0	27	600
1985	945	0	0	n.a.	0	0	0	0	50	1,020
1986	1,265	0	0	n.a.	0	0	0	0	82	1,270
1987	1,333	5	0	n.a.	0	0	0	0	115	1,450
1988	1,231	15	0	n.a.	0	0	0	0	197	1,580
1989	1,332	27	0	n.a.	0	0	0	0	262	1,730
1990	1,484	62	0	n.a.	0	0	0	0	343	1,930
1991	1,709	112	5	n.a.	39	0	0	4	413	2,170
1992	1,680	180	50	n.a.	39	2	0	69	458	2,510
1993	1,635	335	60	n.a.	79	4	2	n.a.	487	2,990
1994	1,663	643	70	n.a.	185	16	n.a.	n.a.	539	3,490
1995	1,612	1,130	140	38	576	32	3	200	637	4,780
1996	1,614	1,548	230	79	820	70	6	273	835	6,100
1997	1,611	2,080	512	170	940	103	10	319	1,120	7,600
1998	1,837	2,870	830	224	1,015	180	19	333	1,428	10,200
1999	2,490	4,445	1,584	268	1,077	227	25	362	1,718	13,600
2000	2,578	6,104	2,235	346	1,220	427	30	406	2,300	17,400
2001	4,275	8,754	3,337	402	1,456	690	93	474	2,417	23,900
2002	4,685	11,994	4,825	469	1,702	797	148	552	2,880	31,100
2003	6,372	14,609	6,203	567	2,125	913	253	648	3,110	39,431
2004	6,725	16,629	8,263	764	3,000	1,255	390	888	3,117	47,620
2005	9,149	18,415	10,027	1,260	4,430	1,718	757	1,353	3,128	59,091
2006	11,575	20,622	11,623	2,599	6,270	2,123	1,567	1,962	3,136	74,052
2007	16,824	22,247	15,145	5,910	7,845	2,726	2,454	2,406	3,125	93,835
2008	25,170	23,903	16,754	12,210	9,645	3,736	3,404	3,241	3,180	120,798

Note: n.a. = data not available. The sum of individual country totals may not match world total since data are from different sources; breakdown for countries with less than 3,000 MW of capacity in 2008 is not presented here.

Source: Compiled by Earth Policy Institute with world data from Global Wind Energy Council (GWEC), *Global Wind 2008 Report* (Brussels: 2009), and Janet L. Sawin, "Wind Power Still Soaring," in Worldwatch Institute, *Vital Signs 2007-2008* (New York: W. W. Norton & Company, 2007). Country data from Worldwatch Institute, *Signposts 2001*, CD-ROM (Washington, DC: 2001); Chinese Renewable Energy Industries Association, *China Wind Power Report 2007* (Beijing: China Environmental Science Press, 2007); American Wind Energy Association, *Global Wind Energy Market Report*, various issues (Washington, DC: 2002-2005); GWEC, op. cit. this note; GWEC, *Global Wind 2006 Report* (Brussels: 2007); 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 (ANEV), "Installed Capacity Until 1999," email to Amy Heinzerling, Earth Policy Institute, 22 September 2009; and European Wind Energy Association, "Wind Energy - The Facts," (Brussels: 1999 and 2004).

This is part of a supporting dataset for Lester R. Brown, **Plan B 4.0: Mobilizing to Save Civilization** (New York: W.W. Norton & Company, 2009). For more information and a free download of the book, see Earth Policy Institute on-line at [www.earthpolicy.org](http://www.earthpolicy.org).

## Cumulative Installed Wind Electricity-Generating Capacity in Selected Countries, 1980-2008



Source: Worldwatch; CREIA; AWEA; GWEC; Demarcq; BWEA; ANEV; EWEA

## U.S. Cumulative Installed Wind Electricity-Generating Capacity, 1980-2008

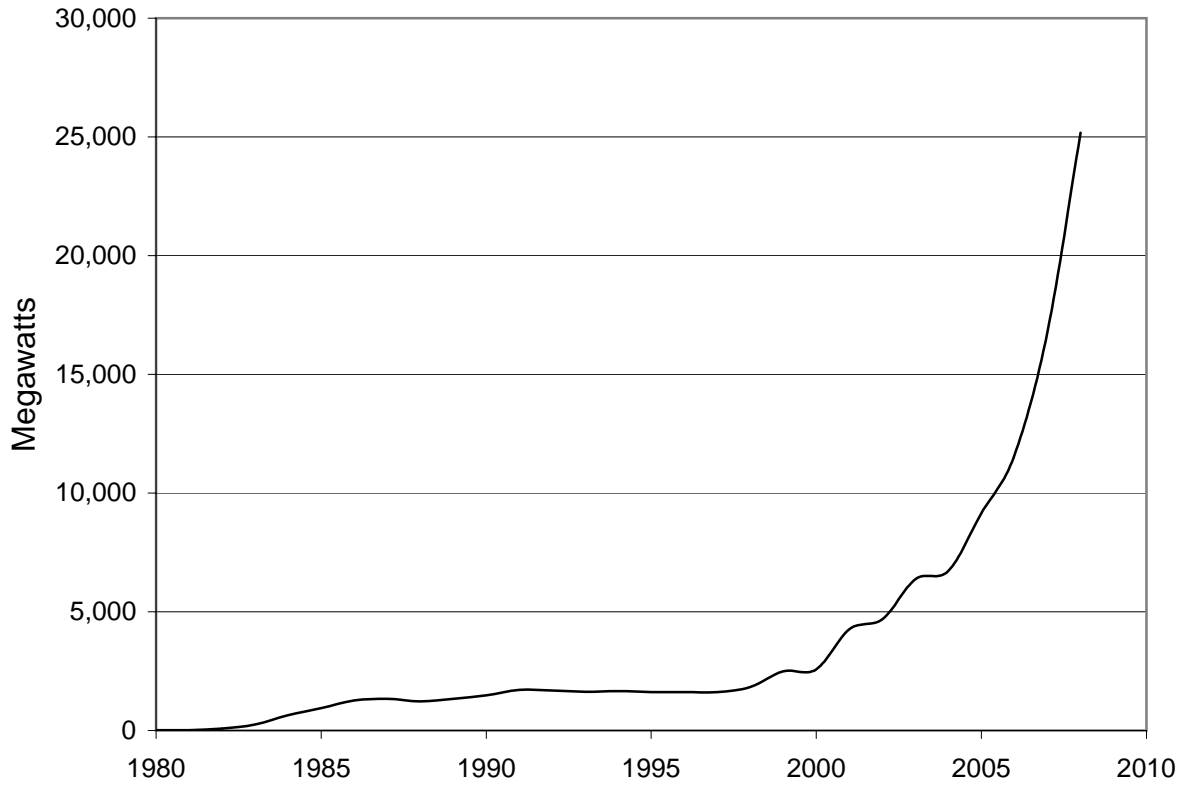
Year	Cumulative Installed Capacity	Net Annual Addition*
	Megawatts	
1980	8	
1981	18	10
1982	84	66
1983	254	170
1984	653	399
1985	945	292
1986	1,265	320
1987	1,333	68
1988	1,231	-102
1989	1,332	101
1990	1,484	152
1991	1,709	225
1992	1,680	-29
1993	1,635	-45
1994	1,663	28
1995	1,612	-51
1996	1,614	2
1997	1,611	-3
1998	1,837	226
1999	2,490	653
2000	2,578	88
2001	4,275	1,697
2002	4,685	410
2003	6,372	1,687
2004	6,725	353
2005	9,149	2,424
2006	11,575	2,426
2007	16,824	5,249
2008	25,170	8,346

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

Source: Compiled by Earth Policy Institute using 1980-1999 data from Worldwatch Institute, *Signposts 2001*, CD-ROM (Washington, DC: 2001); 2000-2008 data from Global Wind Energy Council (GWEC), *Global Wind 2008 Report* (Brussels: 2009), p. 57.

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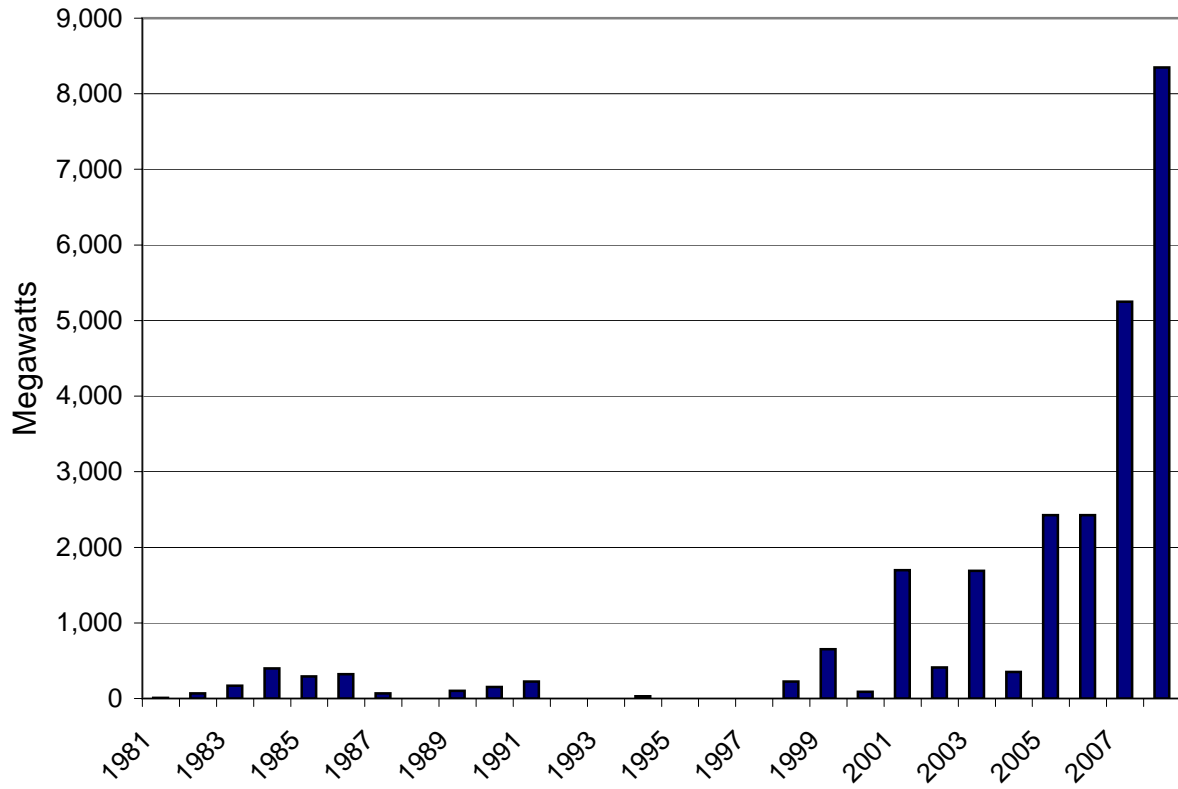
# U.S. Cumulative Installed Wind Electricity-Generating Capacity, 1980-2008



Source: GWEC; Worldwatch



## U.S. Net Annual Installed Wind Electricity-Generating Capacity Additions, 1981-2008



Source: GWEC; Worldwatch