

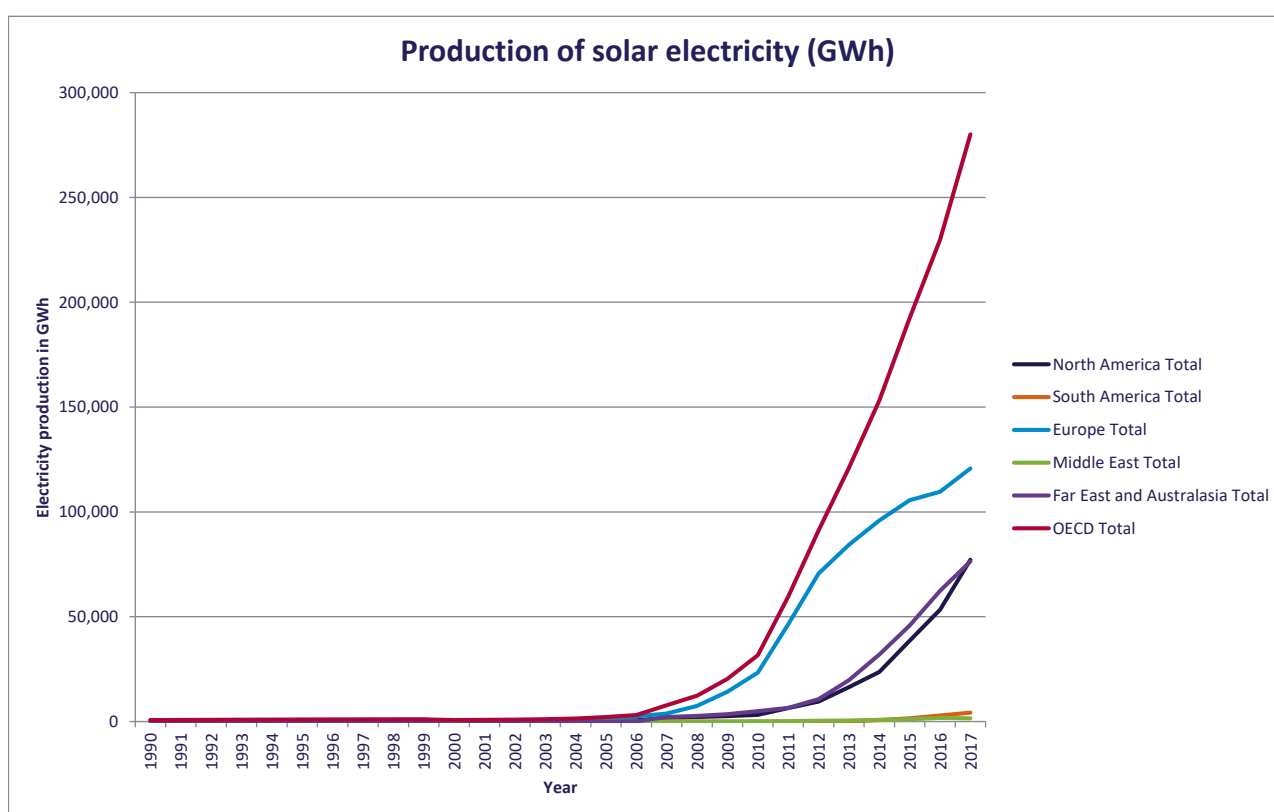
Production of solar electricity (GWh)

Synopsis

Between 1990 and 2017 electricity from solar photovoltaics and solar thermal increased from 748 GWh to 280,087 GWh. Solar photovoltaics was the fastest growing of all renewable electricity technologies with a 34.8% annual growth rate.

In 2017 the USA produced the most solar PV electricity followed by Germany, Italy and the UK. In terms of solar thermal production Spain accounted for 5.9 TWh, the USA 5.4 TWh and Australia 6 GWh.

Solar technologies have been so successful because they are becoming increasingly affordable, efficient and reliable. There is also generally strong policy support and deployment around the world. See our Energy Insight on solar panels and solar roof tiles for more information: <https://knowledge.energyinst.org/search/record?id=110315>.



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	1990	1995	2000	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
																p
NORTH AMERICA																
Canada	-	3	16	17	21	26	35	103	117	260	319	1499	1756	2,895	3,031	3,292
USA	666	828	183	612	565	1673	2091	2514	3063	6153	9186	14858	21915	35,635	50,334	73,879
TOTAL	666	831	199	629	586	1699	2126	2617	3180	6413	9505	16357	23671	38,530	53,365	77,171
SOUTH AMERICA																
Mexico	1	-	7	9	10	9	9	12	31	31	69	106	221	246	252	360
Chile	-	-	-	-	-	-	-	-	-	-	-	8	489	1,261	2,639	3,896
TOTAL	1	-	7	9	10	9	9	12	31	31	69	114	710	1,507	2,891	4,256
EUROPE																
Austria	-	-	3	14	15	24	28	49	89	174	337	582	785	937	1,096	1,248
Belgium	-	-	-	1	2	6	42	166	560	1169	2148	2644	2883	3,065	3,086	3,046
Czech Republic	-	-	-	-	1	2	13	89	616	2182	2149	2033	2123	2,264	2,131	2,188
Denmark	-	-	1	2	2	2	3	4	6	15	104	518	596	604	744	799
Finland	-	-	2	3	3	4	4	4	5	5	5	6	8	9	17	27
France	-	-	5	15	12	16	42	171	620	2050	4016	4735	5909	7,259	8,160	9,163
Germany	1	7	60	1282	2220	3075	4420	6579	11729	19340	26380	31010	36506	38,726	38,098	39,895
Greece	-	-	-	1	1	1	5	50	158	610	1694	3648	3792	3,900	3,930	3,992
Hungary	-	-	-	-	-	-	-	1	1	1	8	25	56	123	201	354
Iceland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ireland	-	-	-	-	-	-	-	-	-	-	-	-	-	2	4	5
Italy	4	13	18	31	35	38	193	676	1906	10796	18862	21589	22306	22,942	22,104	25,207
Luxembourg	-	-	-	18	21	21	20	20	21	26	38	74	95	104	100	102
Netherlands	-	2	8	34	35	35	38	46	56	101	226	487	785	1,122	1,560	2,099
Norway	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-	-	-	-	1	1	7	57	124	167
Portugal	1	1	1	3	5	24	38	160	211	277	393	479	627	796	822	971
Slovak Republic	-	-	-	-	-	-	-	-	17	397	424	588	597	506	533	592
Slovenia	-	-	-	-	-	-	1	4	13	65	163	215	257	274	267	284
Spain	6	15	18	41	119	508	2578	6064	7186	8680	11968	13097	13673	13,859	13,649	14,397
Sweden	-	-	1	-	-	3	4	7	9	11	19	35	47	97	143	229
Switzerland	1	6	11	19	23	27	34	50	94	149	300	500	842	1,119	1,333	1,600
Turkey	-	-	-	-	-	-	-	-	-	-	-	-	-	194	1,043	2,889
UK	-	-	1	8	11	14	17	20	41	252	1352	1989	4050	7,561	10,421	11,479
TOTAL	13	44	129	1472	2505	3800	7480	14160	23338	46300	70587	84255	95944	105,520	109,566	120,723
MIDDLE EAST																
Israel	-	-	-	-	-	-	-	24	70	192	369	494	840	1,115	1,544	1,557
TOTAL	-	-	-	-	-	-	-	24	70	192	369	494	840	1,115	1,714	1,557
FAR EAST AND AUSTRALASIA																
Australia	-	23	38	11	9	127	160	160	426	425	2559	3826	4858	5,968	6,209	8,072
Japan	67	1	347	1	6	2015	2251	2758	3800	5160	6963	14279	24506	35,858	50,952	61,261
Korea	1	26	5	15	31	70	285	566	772	917	1103	1605	2557	3,880	5,123	6,975
New Zealand	-	-	-	-	-	-	-	-	-	-	5	7	16	34	52	72
TOTAL	68	50	390	27	46	2212	2696	3484	4998	6502	10630	19717	31937	45,740	62,336	76,380
OECD TOTAL	748	925	725	2137	3147	7720	12311	20297	31617	59438	91160	120937	153102	192,412	229,872	280,087

Source: World Energy Statistics, 2018