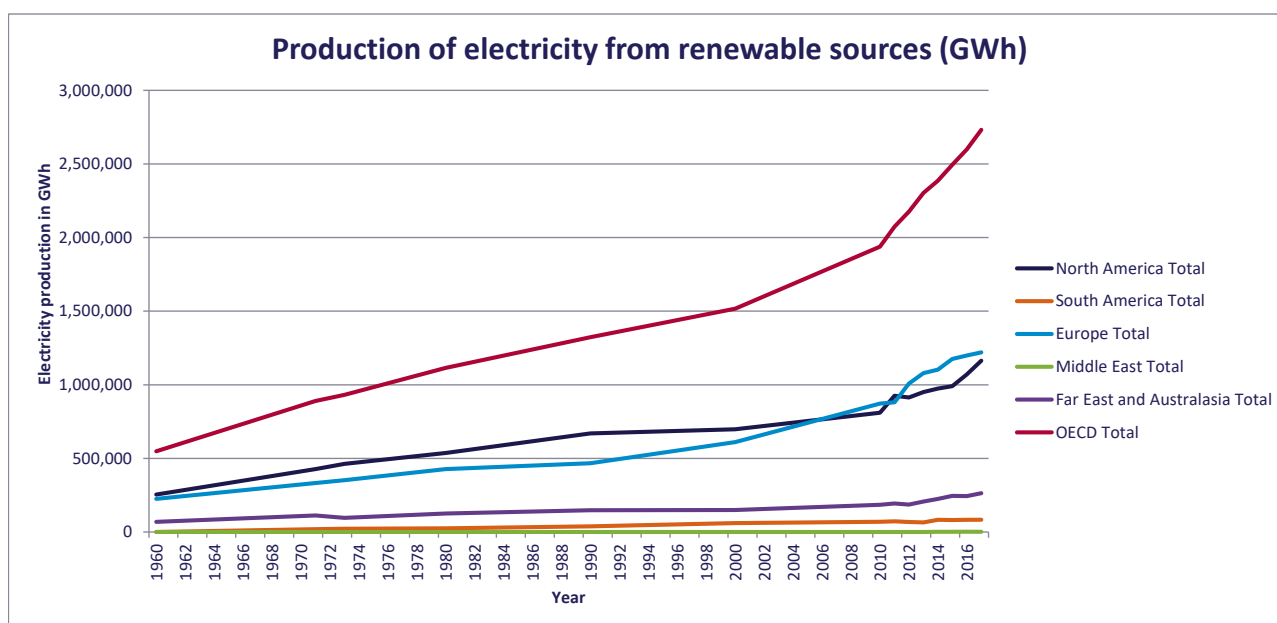


Production of electricity from renewable sources (GWh)

Synopsis

Electricity production from renewables sources (excluding generation from pumped storage plants) reached 2731.8 TWh in 2017. The US produced 720.4 TWh of electricity from renewables in 2017 which was the highest of all countries followed by Canada with 443.1 TWh then Germany with 218.3 TWh. Renewable electricity generation has been growing at an average rate of 2.7% per year since 1990 due to strong areas of growth in solar PV, wind, renewable municipal waste and biogases. Hydroelectric power contributes the most electricity from all renewable sources but has now reached it's capacity in most OECD countries, followed by wind, solar pv and biogases.



Production of electricity from renewable sources (GWh)

	1960	1971	1973	1980	1990	2000	2010	2011	2012	2013	2014	2015	2016	2017
p														
NORTH AMERICA														
Canada	106,792	162,461	194,654	252,448	300,691	366,993	369,092	396,876	400,238	419,652	415,009	422,643	433,597	443,064
USA	147,582	264,338	268,132	284,590	369,241	330,364	440,676	528,952	512,822	541,802	559,496	568,439	637,076	720,404
TOTAL	254,374	426,799	462,786	537,038	669,932	697,357	809,937	925,828	913,918	950,688	974,505	991,082	1,070,673	1,163,468
SOUTH AMERICA														
Chile	-	4,875	5,646	7,976	9,891	19,457	24,296	26,020	25,241	26,060	30,358	32,872	34,319	35,052
Mexico	-	14,381	16,350	17,801	28,604	40,732	45,747	46,964	42,361	39,608	52,893	47,897	48,937	48,243
TOTAL	-	19,256	21,996	25,777	38,495	60,189	70,043	72,984	67,602	65,668	83,251	80,769	83,256	83,295
EUROPE														
Austria	11,359	16,450	18,952	29,049	32,673	43,435	44,980	40,815	51,219	50,334	49,972	47,243	50,772	50,912
Belgium	172	134	287	578	555	1,044	6,494	8,377	10,458	11,624	12,169	14,466	14,168	15,640
Czech Republic	25	1,208	1,081	2,399	1,161	2,284	5,902	7,247	8,065	9,309	9,172	9,422	9,384	9,617
Denmark	0	24	24	41	825	5,572	12,429	14,164	14,837	15,985	17,983	18,962	18,462	21,514
Estonia	-	-	-	-	-	18	1,044	1,179	1,477	1,280	1,462	1,502	1,514	1,742
Finland	5,269	10,627	10,515	10,216	16,015	23,379	24,195	24,150	28,560	25,628	25,240	30,525	30,407	31,225
France	40,887	49,562	48,489	70,234	55,779	69,402	78,195	64,789	83,037	96,673	91,406	89,357	97,242	90,450
Germany	12,034	16,223	18,145	21,921	19,093	35,475	104,809	123,114	143,459	152,366	162,513	187,366	188,342	218,275
Greece	465	2,652	2,223	3,405	1,771	4,144	10,522	8,143	10,151	14,349	12,177	14,850	14,893	13,821
Hungary	-	96	101	112	185	243	3,019	2,708	2,646	2,788	3,136	3,211	3,215	3,455
Iceland	526	1,572	2,233	3,137	4,504	7,679	17,057	17,209	17,546	18,111	18,119	18,795	18,547	19,237
Ireland	932	466	644	838	697	1,185	3,729	5,425	5,250	5,622	6,385	7,858	7,515	8,881
Italy	47,968	43,288	41,368	49,204	34,905	50,880	76,964	82,962	92,223	112,012	120,679	108,906	108,023	104,498
Latvia	-	-	-	-	-	-	4,496	2,823	3,414	3,635	2,804	2,776	3,483	5,461
Luxembourg	20	55	47	113	83	174	268	242	308	370	399	431	456	587
Netherlands	-	-	-	1,024	806	2,972	11,197	12,318	12,514	12,183	11,708	13,695	14,734	17,334
Norway	31,224	63,245	72,867	83,613	121,358	142,105	117,979	122,478	143,645	130,370	138,311	140,626	145,355	145,055
Poland	642	1,670	1,679	2,597	1,652	2,332	10,888	13,138	16,879	17,067	19,843	22,683	22,807	24,001
Portugal	3,163	6,313	7,525	8,335	9,852	12,868	28,392	24,111	19,370	29,471	31,560	24,372	32,262	22,479
Slovak Republic	-	1,476	1,322	2,257	1,880	4,615	5,940	4,999	5,474	6,353	6,229	6,040	6,629	6,583
Slovenia	-	-	-	-	2,950	3,904	4,748	3,878	4,329	5,108	6,614	4,355	5,057	4,430
Spain	15,624	31,868	28,968	29,912	26,032	34,494	97,776	86,224	86,962	111,406	110,309	97,088	104,639	88,157
Sweden	31,030	52,172	60,271	59,589	74,452	83,140	82,101	84,059	98,310	82,688	85,741	102,442	89,127	93,059
Switzerland	20,520	26,875	27,903	32,978	30,236	37,691	37,471	33,998	40,526	40,678	40,670	41,111	37,809	37,509
Turkey	1	2,772	2,800	11,484	23,228	31,154	55,712	58,098	65,216	69,221	52,629	83,657	90,245	87,236
UK	3,154	3,358	3,858	3,891	5,811	9,970	25,928	34,408	41,752	53,891	65,324	83,551	83,226	98,855
TOTAL	225,015	332,106	351,302	426,927	466,503	610,159	872,235	881,056	1,007,627	1,078,522	1,102,554	1,175,290	1,198,311	1,220,013
MIDDLE EAST														
Israel	-	-	-	-	3	31	170	267	484	571	921	1,214	1,813	1,672
TOTAL	-	-	-	-	3	31	170	267	484	571	921	1,214	1,813	1,672
FAR EAST AND AUSTRALASIA														
Australia	4,301	11,844	11,749	13,327	14,898	17,590	21,758	25,520	26,599	33,110	36,973	34,405	37,204	40,527
Japan	58,500	84,200	67,047	89,192	98,204	99,191	124,568	127,415	118,282	129,323	145,260	165,485	155,161	167,698
Korea	-	1,320	1,284	1,984	4,685	4,111	6,186	7,479	7,093	8,783	8,553	10,406	15,884	19,886
New Zealand	5,972	14,373	15,559	20,425	25,814	28,062	32,833	33,752	31,807	32,129	34,458	35,400	36,118	35,233
TOTAL	68,773	111,737	95,639	124,928	147,962	148,954	185,201	194,166	185,982	207,496	225,244	245,696	244,367	263,344

OECD TOTAL	548,162	889,898	931,723	1,114,670	1,322,895	1,516,690	1,937,586	2,074,301	2,175,613	2,302,945	2,386,475	2,494,051	2,598,420	2,731,792
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Source: World Energy Statistics, IEA

(Note: 2002-2009 only includes electricity from wind, tide, wave and ocean sources.)

1960, 1971, 1973, 1980, 2000 and 2010-2015 includes electricity from hydro, geothermal, solar, wind, tide, wave, biofuels and the renewable fraction of municipal waste.)