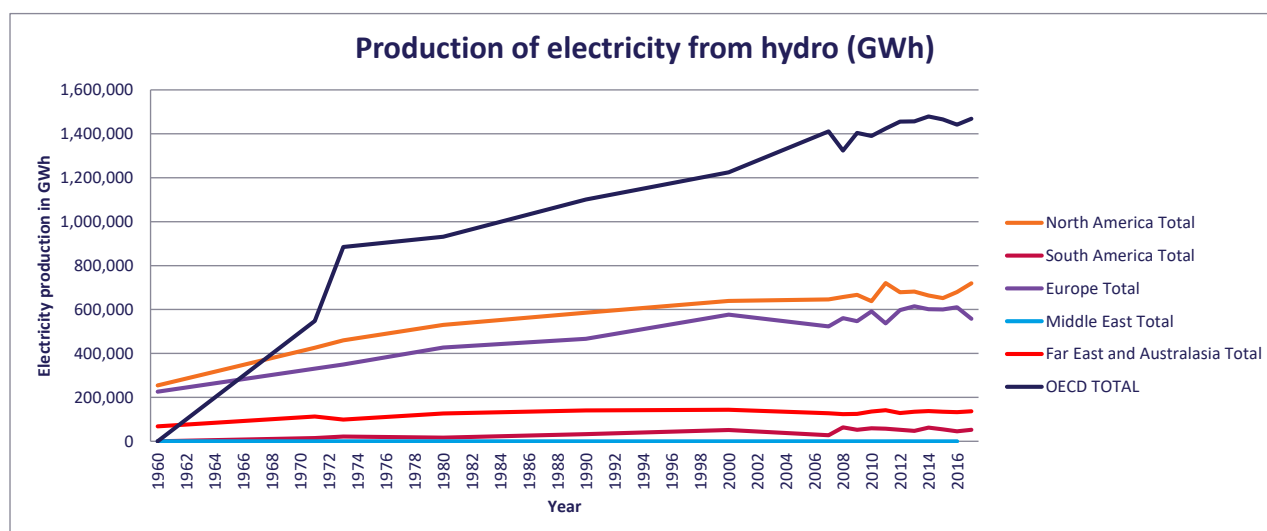


Production of electricity from hydro (GWh)

Synopsis

Production of electricity from hydroelectric plants has increased on average 0.6% per year from 1990 to 2017. There has been a rapid growth of electricity generation from other renewable sources from 1990 to 2017 which has caused a decrease in the share of electricity produced from hydro from 89.4% in 1990 to 51.2% in 2017. Canada had the highest production of electricity from hydro at 394 TWh followed by the US at 325 TWh and Norway at 143 TWh in 2017. Hydroelectric power is nearing its potential capacity limit in most OECD countries.



Production of electricity from hydro (GWh)

	1960	1980	1990	2000	2010	2011	2012	2013	2014	2015	2016	2017 p
NORTH AMERICA												
Canada	106,942	251,249	296,848	358,620	351,461	375,797	380,340	391,861	382,574	380,717	387,208	394,530
USA	147,460	278,781	288,960	279,986	286,333	344,679	298,287	290,113	281,527	271,129	292,113	325,129
TOTAL	254,402	530,030	585,808	638,606	637,794	720,476	678,627	681,974	664,101	651,846	679,321	719,659
SOUTH AMERICA												
Chile	-	-	8,928	18,516	21,717	21,009	20,158	19,737	23,099	23,881	16,554	22,034
Mexico	-	16,886	23,478	33,133	37,131	36,266	31,883	28,002	38,893	30,815	29,138	30,078
TOTAL	0	16,886	32,406	51,649	58,848	57,275	52,041	47,739	61,992	54,696	45,692	52,112
EUROPE												
Austria	11,882	29,090	32,507	43,219	41,558	37,719	47,705	45,776	44,829	40,592	42,919	42,572
Belgium	172	829	897	1,699	1,668	1,423	1,659	1,723	1,507	1,418	1,489	1,402
Czech Republic	0	2,399	1,449	2,313	3,380	2,664	2,860	3,639	2,961	3,071	3,202	3,039
Denmark	25	30	28	30	21	17	17	13	15	18	19	15
Estonia	-	-	-	5	27	30	42	26	27	27	35	30
Finland	5,269	10,216	10,859	14,660	12,922	12,445	16,859	12,838	13,397	16,769	15,799	14,796
France	40,933	70,187	57,418	71,133	67,525	49,893	63,594	75,867	68,626	59,400	64,889	54,365
Germany	12,993	20,307	19,791	25,962	27,353	23,514	27,849	28,782	25,444	24,898	26,135	26,151
Greece	465	3,405	1,997	4,111	7,485	4,275	4,591	6,384	4,607	6,150	5,565	4,053
Hungary	-	112	178	178	188	222	213	213	301	234	259	220
Iceland	526	3,087	4,204	6,356	12,592	12,507	12,337	12,863	12,873	13,781	13,470	14,059
Ireland	932	1,155	983	1,150	776	707	1,014	944	988	1,095	973	895
Italy	46,106	47,511	35,079	50,900	54,406	47,757	43,854	54,672	60,256	46,970	44,257	37,935
Latvia	-	-	-	-	4,496	2,819	3,326	3,520	1,994	1,860	2,530	4,381
Luxembourg	20	290	823	871	1,468	1,130	1,160	1,158	1,169	1,530	1,528	1,422
Netherlands	-	-	85	142	105	57	104	114	112	93	100	61
Norway	31,224	83,962	121,382	142,289	117,152	122,080	142,812	128,699	136,636	139,013	144,005	142,993
Poland	657	3,279	3,313	4,116	3,488	2,761	2,465	2,997	2,734	2,435	2,622	3,030
Portugal	3,118	8,072	9,303	11,715	16,547	12,115	6,660	14,868	16,412	9,799	16,909	7,501
Slovak Republic	0	2,366	2,515	4,975	5,649	4,146	4,439	5,166	4,462	4,137	4,606	4,772
Slovenia	-	-	2,950	3,834	4,703	3,703	4,087	4,923	6,366	4,091	4,782	4,141
Spain	15,624	30,807	26,184	31,807	45,511	32,911	24,162	41,052	42,920	31,368	39,865	20,974
Sweden	31,070	59,247	73,033	78,619	66,501	66,556	79,058	61,496	63,872	75,439	62,137	64,611
Switzerland	20,709	33,877	30,982	38,230	37,825	34,133	40,305	39,968	39,701	39,881	36,689	37,033
Turkey	1,002	11,348	23,148	30,879	51,796	52,338	57,865	59,420	40,645	67,146	67,231	58,219
UK	3,154	5,123	7,189	7,780	6,715	8,592	8,252	7,606	8,768	9,028	8,354	8,815
TOTAL	225,881	426,699	466,297	576,973	591,857	536,514	597,289	614,727	601,622	600,243	610,369	557,485
MIDDLE EAST												
Israel	-	-	3	31	31	28	33	28	13	24	24	0
TOTAL	0	0	3	31	31	28	33	28	13	24	24	0
FAR EAST AND AUSTRALASIA												
Australia	3,998	13,781	14,880	16,720	13,549	16,807	14,083	18,270	18,421	13,445	15,318	16,531
Japan	58,500	92,092	95,835	96,817	90,682	91,709	83,645	84,923	86,942	91,270	85,083	88,311
Korea	-	1,984	6,361	5,610	6,472	7,831	7,652	8,394	7,820	5,796	6,634	6,980
New Zealand	5,565	18,928	23,183	24,433	24,716	25,079	22,901	23,044	24,336	24,535	25,730	24,971
TOTAL	68,063	126,785	140,259	143,580	135,419	141,426	128,281	134,631	137,519	135,046	132,765	136,793
OECD TOTAL	548,346	1,100,400	1,224,773	1,410,839	1,423,949	1,455,719	1,456,271	1,479,099	1,465,247	1,441,855	1,468,171	1,466,049

Source: World Energy Statistics, IEA