



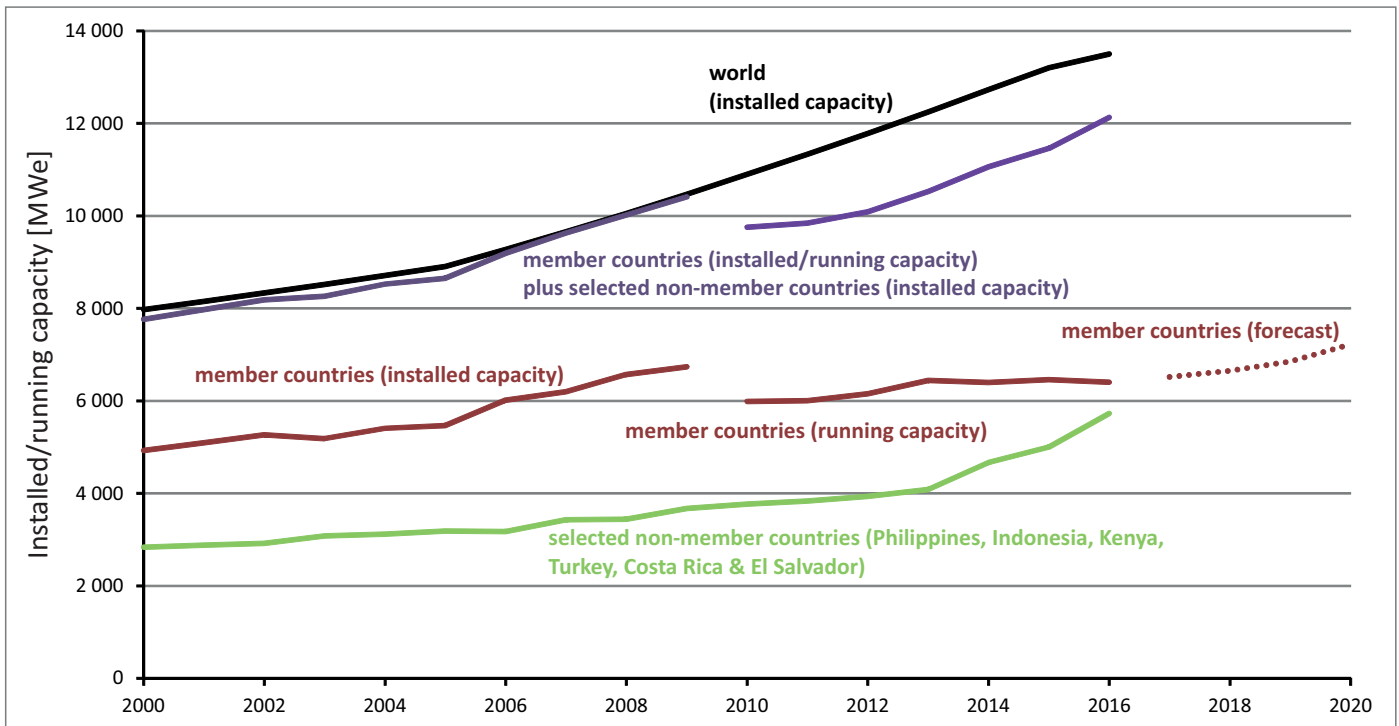
# Geothermal Power Statistics 2016

IEA Geothermal

## Installed/Running Capacity [MW<sub>e</sub>] 2000 - 2016

Country	Installed capacity [MW <sub>e</sub> ]							Running capacity [MW <sub>e</sub> ]						
	2000	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
AUS	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
DEU	0.0	0.2	0.2	0.2	3.2	3.2	7.1	6.4	6.4	11.1	30.1	32.2	31.9	37.4
FRA	4.2	na	15.0	15.0	15.0	17.2	17.2	16.3	15.4	15.4	10.3	16.1	16.5	16.5*
ISL	170.0	202.0	202.0	422.0	485.0	575.0	575.0	575.0	665.0	665.0	663.0	661.0	663.0	662.4
ITA	785.0	862.0	791.0	810.0	810.0	810.5	842.5	728.1	728.0	766.0	767.0	807.0	807.0*	762.0
JPN	547.0	535.0	535.3	535.3	535.3	535.3	535.3	537.7	540.1	540.1	515.1	515.2	513.7	521.7
MEX	755.0	953.0	953.0	953.0	958.0	958.0	958.0	958.0	883.0	805.0	839.0	840.2	883.4	891.1
NZL	437.0	452.0	435.0	450.0	452.0	632.0	632.0	758.0	758.0	758.0	1,008.0	1,009.8	1,001.0	997.8
USA	2,228.0	2,400.0	2,534.0	2,831.0	2,936.5	3,040.0	3,168.0	2,404.6	2,409.2	2,592.1	2,607.0	2,514.3	2,541.5	2,511.5
<b>Total GIA</b>	<b>4,926.4</b>	<b>5,404.4</b>	<b>5,465.7</b>	<b>6,016.6</b>	<b>6,195.1</b>	<b>6,571.3</b>	<b>6,735.2</b>	<b>5,984.2</b>	<b>6,005.2</b>	<b>6,152.8</b>	<b>6,439.6</b>	<b>6,395.9</b>	<b>6,458.1</b>	<b>6,400.5</b>
<b>World</b>	<b>7,974.0<sup>1</sup></b>	<b>na</b>	<b>8,903.0<sup>2</sup></b>	<b>na</b>	<b>9,732.0<sup>3</sup></b>	<b>na</b>	<b>na</b>	<b>10,895<sup>2</sup></b>	<b>na</b>	<b>na</b>	<b>na</b>	<b>12,729<sup>4</sup></b>	<b>13,200<sup>5</sup></b>	<b>13,500<sup>6</sup></b>

Installed (2000-2009) and running capacity (2010-2016) in IEA Geothermal member countries and installed capacity worldwide ([1]-[6]). Years 2001-2003 have been hidden for lack of space. For more comprehensive information see the annual IEA Geothermal Trend Reports [e.g. 7]. Country data: Working Group 10 reports (for 2010-2016), IEA Geothermal Annual Reports (for 2004-2009), and [1] (for 2000). \*data from previous year

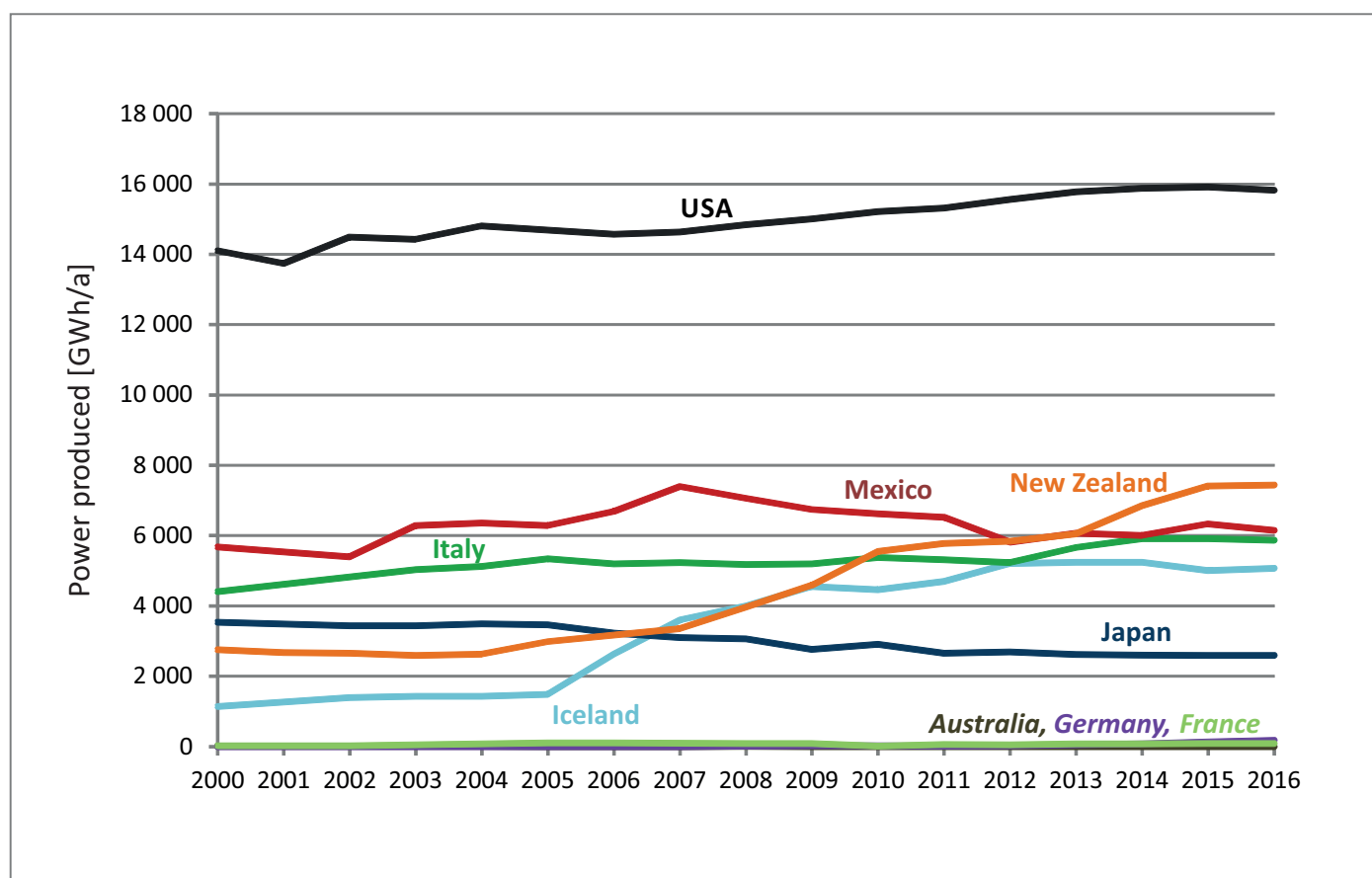


Installed (2000-2009) and running capacities (2010-2016) in IEA Geothermal member countries, selected non-member countries and worldwide 2000-2016 ([1]-[6], [8] & [9]), and forecast of the development of running capacities in IEA Geothermal member countries until 2020.

# Geothermal Electricity Production 2000 - 2016

Country	Geothermal electricity produced [GWh/a]													
	2000	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
AUS	0.9	1.0	0.5	0.7	0.5	0.8	0.6	0.0	0.6	0.5	0.5	0.6	0.3	0.3
DEU	0.0	0.4	0.2	0.4	0.4	18.0	19.0	27.5	18.7	25.4	54.3	80.0	133.6	174.2
FRA	24.6	na	102.0	102.0	95.0	90.0	89.0	14.9	56.6	50.6	80.6	79.0	83.0	83.0*
ISL	1,138.0	1,433.0	1,483.0	2,631.0	3,600.0	4,000.0	4,553.0	4,465.0	4,701.0	5,210.0	5,245.0	5,238.0	5,003.0	5,067.3
ITA	4,403.0	5,127.0	5,340.0	5,200.0	5,233.0	5,181.0	5,200.0	5,376.0	5,315.0	5,235.0	5,659.0	5,916.0	5,916.0*	5,870.0
JPN	3,532.0	3,486.0	3,467.0	3,228.0	3,102.0	3,064.0	2,765.0	2,908.0	2,652.2	2,688.8	2,620.4	2,604.7	2,587.3	2,589.6
MEX	5,681.0	6,360.0	6,282.0	6,685.0	7,393.0	7,056.0	6,740.0	6,618.0	6,524.0	5,817.0	6,070.0	6,000.0	6,331.0	6,150.7
NZL	2,756.0	2,631.0	2,981.0	3,177.0	3,354.0	3,966.0	4,589.0	5,550.0	5,774.0	5,843.0	6,053.0	6,847.0	7,410.0	7,434.0
USA	14,100.0	14,811.0	14,692.0	14,568.0	14,637.0	14,840.0	15,009.0	15,219.0	15,316.0	15,562.0	15,775.0	15,877.0	15,918.0	15,825.8
<b>Total GIA</b>	<b>31,635.5</b>	<b>33,849.4</b>	<b>34,347.7</b>	<b>35,592.1</b>	<b>37,414.9</b>	<b>38,215.8</b>	<b>38,964.6</b>	<b>40,178.4</b>	<b>40,358.1</b>	<b>40,432.3</b>	<b>41,557.8</b>	<b>42,624.3</b>	<b>43,382.2</b>	<b>43,194.9</b>
World	49,261 <sup>1</sup>	na	55,709 <sup>2</sup>	na	na	na	na	67,202 <sup>2</sup>	na	na	na	73,689 <sup>4</sup>	75,000 <sup>5</sup>	78,500 <sup>6</sup>

Geothermal electricity produced in IEA Geothermal member countries and worldwide 2000-2016 ([1], [2], [4]-[6]). Years 2001-2003 have been hidden for lack of space. For mor comprehensive information see the annual IEA Geothermal Trend Reports [e.g. 7]. Country data: Working Group 10 reports (for 2010-2016), IEA Geothermal Annual Reports (for 2004-2009), and [1] (for 2000). \*data from previous year



Geothermal power generation in IEA Geothermal member countries 2000-2016. Country data: Working Group 10 reports (for 2010-2016), IEA Geothermal Annual Reports (for 2001-2009), and [1] (for 2000).

## Main Activity and Autoproducers 2016

Country	Running capacity [MW <sub>e</sub> ]			
	Main activity producers		Autoproducers	
	Power	CHP	Power	CHP
AUS	0.1			
DEU	18.8	18.6		
FRA	16.5*			
ISL	60.0	603.0		
ITA	762.0			
JPN	509.2		12.5	
MEX	873.6		17.5	
NZL	997.8			
USA	2,511.5			
<b>Total</b>	<b>5,749.5</b>	<b>621.6</b>	<b>30.0</b>	<b>0.0</b>

Country	Gross power production [GWh]			
	Main activity producers		Autoproducers	
	Power	CHP	Power	CHP
AUS	0.3			
DEU	95.6	78.7		
FRA	83.0*			
ISL	491.0	4,576.3		
ITA	5,870.0			
JPN	2,528.9		60.7	
MEX	6,033.0		117.7	
NZL	7,434.0			
USA	15,825.8			
<b>Total</b>	<b>38,361.6</b>	<b>4,655.0</b>	<b>178.4</b>	<b>0.0</b>

Breakdown of running capacity and gross power production by main activity and autoproducers in 2016. For details and definitions see IEA Geothermal Trend Report 2015 [7]. \*data from previous year

## Latest Geothermal Power Plants (> 1 MW<sub>e</sub>)

Locality/Power Plant name	Year of Commissioning	Type of Unit	Running Capacity [MW <sub>e</sub> ]	Installed Capacity [MW <sub>e</sub> ]	Energy Production 2016 [GWh/a]	Main Activity or Autoproducer
<b>Germany</b>						
Traunreut	2016	ORC Binary	5.5	5.5	23.3	M
Grünwald (Laußorn)	2014	ORC Binary	4.3	4.3	16.9	M
Kirchstockach	2013	ORC Binary	7.0	7.0	34.8	M
<b>Iceland</b>						
Hellisheiði	2006	Flash Steam	303.0	303.0	2,366.8	M
Reykjanes	2006	Flash Steam	100.0	100.0	629.4	M
<b>Japan</b>						
Sugawara	2015	ORC Binary	5.0	5.0	30.6	M
Waita	2015	Flash Steam	2.0	2.0	11.3	M
Medipolis Ibusuki	2015	ORC Binary	1.58	1.58		M
<b>Mexico</b>						
Domo San Pedro/U3	2016	Flash Steam	17.5	25.5	103.7	A
Los Azufres/U17	2015	Flash Steam	53.4	53.4	435.1	M
Los Humeros/U11	2013	Flash Steam	26.8	26.8	212.4	M
<b>New Zealand</b>						
Ngatamariki	2013	ORC Binary	82.0	82.0	700.0	M
Kawerau (TOPP1)	2013	Flash Steam	25.0	25.0	200.0	M
Wairakei - Te Mihi	2013	Flash Steam	170.0	166.0	1,400.0	M
<b>United States</b>						
Don A Campbell 2	2015	ORC Binary	16.2	25.0	na	M
McGinness Hills 2	2015	ORC Binary	30.0	48.0	na	M
Paisley Geothermal	2015	ORC Binary	1.8	3.7	na	M

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