



## Poland

As a Member State of the European Union (EU), Poland adopted the EU regulations and directives on air pollution control. The Environmental Protection Act of 27 April 2001 (Journal of Laws 2008 No. 25, pos. 150, as amended) defines the principles of air quality and air protection, and this is followed by decrees on specific subjects. Emission standards for air pollutants from combustion plants are laid down in ‘Rozporządzenie Ministra Środowiska z dnia 4 listopada 2014 r. w sprawie standardów emisyjnych dla niektórych rodzajów instalacji, źródeł spalania paliw oraz urządzeń spalania lub współspalania odpadów’ (Decree of the Minister of Environment of 4 November 2014 on emission standards for certain types of installations, burning fuels or co-combustion of wastes), published in the Journal of Laws No. 1546, and effective from 22 November 2014 (available at <http://isap.sejm.gov.pl/Download?id=WDU20140001546&type=2>). The Decree specifies emission standards for coal, biomass, peat, liquid fuels and waste co-combustion installations. The emission standards for hard coal and lignite are given in the following tables.

**Table 1 Emission limits for all plants (50 MW or more), effective from 1 January 2016**

Plant size, MW	Emission limit values, mg/m <sup>3</sup>		
	SO <sub>2</sub>	NO <sub>x</sub> (NO+NO <sub>2</sub> )	Particulate matter
≥50 – ≤100	400	300 (450 lignite)	30
>100 – ≤300	250 <sup>1</sup>	200	25
>300	200 <sup>2</sup>	200	20

<sup>1</sup> Plants which have a permit to operate for only 17,500 h or 32,000 h between 1 January 2016 and 31 December 2023 have a limit of 200 mg/m<sup>3</sup>

<sup>2</sup> Plants which have a permit to operate for only 17,500 h or 32,000 h between 1 January 2016 and 31 December 2023 have a limit of 150 mg/m<sup>3</sup>, except for circulating or pressurised fluidised bed combustors which have a limit of 200 mg/m<sup>3</sup>

**Table 2 SO<sub>2</sub> emission limits for new and existing plants burning hard coal**

Plant size, MW	Emission limit values, mg/m <sup>3</sup>			
	Plants with permits issued before 29 March 1990		Plants with permits issued after 28 March 1990	
	Until 31 Dec 2015	From 1 Jan 2016	Until 31 Dec 2015	From 1 Jan 2016
<5	1500	1500	1500	1500
≥5 – <50	1500	1500	1300	1300
≥50 – ≤100	1500	as given in Table 1	850	as given in Table 1
>100 – ≤225	1500		gradual decrease from 850 to 400 <sup>1</sup>	
>225 – ≤500	gradual decrease from 1500 to 400 <sup>1</sup>			
>500	400 <sup>1</sup>		400 <sup>1</sup>	

<sup>1</sup> Until 31 December 2015, a limit of 800 mg/m<sup>3</sup> applies to plants over 400 MW which do not operate for more than 2000 operating hours per year as a rolling average over a period of 5 years

**Table 3 SO<sub>2</sub> emission limits for new and existing plants burning lignite**

Plant size, MW	Emission limit values, mg/m <sup>3</sup>			
	Plants with permits issued before 29 March 1990		Plants with permits issued after 28 March 1990	
	Until 31 Dec 2015	From 1 Jan 2016	Until 31 Dec 2015	From 1 Jan 2016
<50	1500	1500	1500	1500
≥50 – ≤100	1500	as given in Table 1	850	as given in Table 1
>100 – ≤225	1500		gradual decrease from 850 to 400 <sup>1</sup>	
>225 – ≤500	gradual decrease from 1500 to 400 <sup>1</sup>			
>500	400 <sup>1</sup>		400 <sup>1</sup>	

<sup>1</sup> Until 31 December 2015, a limit of 800 mg/m<sup>3</sup> applies to plants over 400 MW which do not operate for more than 2000 operating hours per year as a rolling average over a period of 5 years

**Table 4 NO<sub>x</sub> (NO+NO<sub>2</sub>) emission limits for new and existing power plants burning hard coal**

Plant size, MW	Emission limit values, mg/m <sup>3</sup>			
	Plants with permits issued before 29 March 1990		Plants with permits issued after 28 March 1990	
	Until 31 Dec 2015	From 1 Jan 2016	Until 31 Dec 2015	From 1 Jan 2016
<50	400	400	400	400
≥50 – ≤500	600	as given in Table 1	500	as given in Table 1
>500	500 <sup>1</sup>		500 <sup>1</sup>	

<sup>1</sup> Until 31 December 2015, a limit of 600 mg/m<sup>3</sup> applies to plants which do not operate for more than 2000 operating hours per year as a rolling average over a period of 5 years

**Table 5 NO<sub>x</sub> (NO+NO<sub>2</sub>) emission limit values for new and existing power plants burning lignite**

Plant size, MW	Emission limit values, mg/m <sup>3</sup>			
	Plants with permits issued before 29 March 1990		Plants with permits issued after 28 March 1990	
	Until 31 Dec 2015	From 1 Jan 2016	Until 31 Dec 2015	From 1 Jan 2016
<50	500	500	400	400
≥50 – ≤500	500	as given in Table 1	400	as given in Table 1
>500	500 <sup>1</sup>		400 <sup>1</sup>	

<sup>1</sup> Until 31 December 2015, a limit of 600 mg/m<sup>3</sup> applies to plants which do not operate for more than 2000 operating hours per year as a rolling average over a period of 5 years

**Table 6 Particulate matter emission limits for new and existing power plants burning hard coal or lignite**

Plant size, MW	Emission limit values, mg/m <sup>3</sup>			
	Plants with permits issued before 29 March 1990		Plants with permits issued after 28 March 1990	
	Until 31 Dec 2015	From 1 Jan 2016	Until 31 Dec 2015	From 1 Jan 2016
<5	700	200	630	200
≥5 – <50	400	100	400	100 <sup>1</sup>
≥50 – ≤500	100	as given in Table 1	100	as given in Table 1
>500	50 <sup>2</sup>		50 <sup>2</sup>	

<sup>1</sup> Smaller heat and power plants named in Section IV.3 of the Decree have an emission limit of 400 mg/m<sup>3</sup> until 31 December 2017

<sup>2</sup> Plants which fire fuels with a caloric value of up to 5800 kJ/kg, moisture content of up to 45 wt%, combined moisture and ash content >60 wt% and CaO content >10 wt% have an emission limit of 100 mg/m<sup>3</sup>

Notes:

1. 'New plants' are those for which the original construction permit was issued after 6 January 2013 or which started operation after 7 January 2014.
2. 'Existing plants' are those for which the original construction permit was issued before 7 January 2013 or an application was submitted before this date and which was in operation no later than 7 January 2014.
3. Reference conditions are 6% O<sub>2</sub> in exhaust gas (dry basis) at 273.15 K and 101.3 kPa.

This paper reflects the IEA CCC understanding of the relevant legislation and is not a substitute for the official version. The IEA CCC does not guarantee the accuracy of the data included in this paper and accepts no responsibility for any consequences of their use.

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