



## Bulgaria

The Air Protection Directorate (<http://www.moew.government.bg/?show=top&cid=2>), which is under the Ministry of Environment and Water (<http://www.moew.government.bg/>), is responsible for the development and/or coordination of laws, regulations, procedures, instructions and other related policy on the protection of air in Bulgaria. It is also responsible for developing and/or coordinating the development of ambient air quality emission standards and standards for the emission of pollutants from stationary sources, including power plants. The Environmental Protection Act provides the framework for environmental protection in Bulgaria. It was promulgated in the State Gazette No 91 of 25 September 2002. The latest amendment was published in the State Gazette of 3 June 2011, and is available, in English, at <http://faolex.fao.org/docs/pdf/bul52883.pdf>.

Bulgaria, as a member state of the European Union (EU), has transposed a series of EU directives relating to power plant emissions into law, the latest one being the Industrial Emissions Directive (IED, 2010/75/EU). More details on EU directives relating to power plant emissions can be found in the entry for the European Union (see <http://www.iea-coal.org.uk/documents/83365/9582/European%20Union>). Although the IED has been adopted, Bulgaria has also implemented a transitional national plan (TNP) under Article 9c of the Clean Air Act. This exempts certain large combustion plants from compliance with the emission limits set out in the IED. Upper limits on the maximum total annual emissions for each of the plants covered by the plan have been set.

The IED was adopted by Decree No. 354 of 28 December 2012 and promulgated in the State Gazette No. 2 of 8 January 2013 as the *Ordinance on emission limit values for sulphur dioxide, nitrogen oxides and dust into the air from large combustion plants*, available, in Bulgarian, at [http://www.moew.government.bg/files/file/Air/Naredbi\\_GGI\\_IProcesi/NAREDBA\\_za\\_normi\\_za\\_dopus\\_timi\\_emisii\\_na\\_seren\\_dioksid\\_azotni\\_oksidi\\_i\\_prah\\_izpuskani\\_v\\_atmosferata\\_o.pdf](http://www.moew.government.bg/files/file/Air/Naredbi_GGI_IProcesi/NAREDBA_za_normi_za_dopus_timi_emisii_na_seren_dioksid_azotni_oksidi_i_prah_izpuskani_v_atmosferata_o.pdf). The emission limits are given in the following tables. They apply to large coal-fired combustion plants with a rated thermal input of 50 MW and above, and are due to be met from 1 January 2016. In addition, emissions from large combustion plants are not allowed to exceed the limits for ambient air given in Decree No. 12 of 15 July 2010, *Standards for sulphur dioxide, nitrogen dioxide, particulate matter, lead, benzene, carbon monoxide and ozone in ambient air* (implemented in State Gazette no. 58 of 30 July 2010), and available, in Bulgarian, at [http://www3.moew.government.bg/files/file/Air/Naredbi\\_KAV/Naredba\\_12\\_Normi\\_KAV.pdf](http://www3.moew.government.bg/files/file/Air/Naredbi_KAV/Naredba_12_Normi_KAV.pdf).

### Particulate matter emission limits

Total rated thermal input, MW	Existing plants, mg/Nm <sup>3</sup>	New plants, mg/Nm <sup>3</sup>
50-100	30	20
100-300	25	20
>300	20	10

### SO<sub>2</sub> emission limits

Total rated thermal input, MW	Existing plants, mg/Nm <sup>3</sup>	New plants, mg/Nm <sup>3</sup>
50-100	400	400
100-300	250	200
>300	200	150 200 for circulating or pressurised fluidised bed combustion

Exception: Plants that were granted a permit, or had submitted an application for one, before 27 November 2002 and were operating prior to 27 November 2003 can meet a limit of 800 mg/Nm<sup>3</sup>, provided they do not operate for more than 1500 hours as a rolling average over 5 years.

If able to demonstrate that these emissions limits are impossible to meet due to fuel characteristics, plants using domestic solid fuels have the option of instead meeting desulphurisation rates given in the following table:

Total rated thermal power input, MW	Plants operational prior to 2003*	Other existing plants	New plants
50-100	80%	92%	93%
100-300	90%	92%	93%
>300	96%	96%	97%

\* Plants which were granted a permit, or had submitted an application for one, before 27 November 2002 and were in operation before 27 November 2003.

### NO<sub>x</sub> emission limits

Total rated thermal input, MW	Existing plants, mg/Nm <sup>3</sup>	New plants, mg/Nm <sup>3</sup>
50-100	300 450 for pulverised lignite combustion	300 400 for pulverised lignite combustion
100-300	200	200
>300	200	150 200 for pulverised lignite combustion

Exceptions: Plants with a total rated thermal input under 500 MW that were granted a permit, or had submitted an application for one, before 27 November 2002 and were operating prior to 27 November 2003 can meet a limit of 450 mg/Nm<sup>3</sup>, provided they do not operate for more than 1500 hours as a rolling average over 5 years.

Plants with a total rated thermal input over 500 MW that were granted a permit before 1 July 1987 can meet a limit of 450 mg/Nm<sup>3</sup>, provided they do not operate for more than 1500 hours as a rolling average over 5 years.

General notes:

1. 'Existing plant' means any combustion plant for which the application for a construction and/or operation permit was granted before 7 January 2013, or the operator had submitted a complete application for a permit before this date, provided the plant was put into operation no later than 7 January 2014.
2. Existing plants which were exempted from compliance with the emission limit values because they operated for less than 20,000 hours over the period 1 January 2008 to 31 December 2015, but are still operating after 1 January 2016 have to meet the emission limits for new plants.
3. 'New plants' are plants not covered by the existing plants definition, such as those that entered into operation after 7 January 2014.
4. All the above emission limit values are expressed at 0°C, 101.3 kPa, on a dry basis, and with 6% of O<sub>2</sub> in the flue gas.

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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