

EMISSIONS STANDARDS

MALAYSIA



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Emission standards for Malaysia are set by the [Department of Environment](#) under the authority of the [Environmental Quality Act](#) 1974, amended in 2007 and 2012. Emission standards for industrial processes, including power generation, are covered in the [Environmental Quality \(Clean Air\) Regulations 2014](#), which replaced the Environmental Quality (Clean Air) Regulations of 1978.

Emission limits for power generation

The following emission standards apply to new and existing power generation boilers with a total capacity of more than 10 MW_e burning solid fuels, such as coal and biomass.

Emission standards for power generation

Pollutant	Capacity, MW _e	Limit value, mg/m ³ , unless otherwise stated	Monitoring
Particulate matter	>10	50	Continuous*
SO _x (SO ₂ + SO ₃)	>10	500	Continuous*
NO _x (NO + NO ₂)	>10	500	Continuous*
CO	>10	200	Continuous*
Mercury (Hg)	>10	0.03	Periodic
Hydrogen chloride (HCl)	>10 - <100	200	Periodic
	≥100	100	
Hydrogen fluoride (HF)	>10 - <100	30	Periodic
	≥100	15	
Dioxins/furans (PCDD/PCDF)	>10	0.1 ng TEQ/m ³	Periodic

* Averaging time for continuous monitoring is 30 minutes.

TEQ means toxicity equivalents in comparison to 2,3,7,8-tetrachlorinateddibenzo-para-dioxin, which is also known as 2,3,7,8-tetrachlorodibenzodioxin, or 2,3,7,8-TCDD.

Reference conditions for the emission limit values are 6% of O₂ in the exhaust gas (dry basis) at 273 K (0°C) and 101.3 kPa.

The plants must have measures installed to reduce the emissions of air pollutants in accordance with the Best Available Techniques economically achievable, as determined by the Director General.

Emission limits for other fuel burning equipment

The following emission limits apply to any fuel burning equipment (including boilers) consuming ≥ 30 kg/h of pulverised fuel or solid fuels.

Coal should have a sulphur content of less than 1 wt%.

Emission standards for fuel burning equipment

Pollutant	Dust load emitted, kg/h	Emission limit, mg/m ³	Monitoring
Total particulate matter	>0.44 - <1	150	Once/year
	≥ 1 - <1.5	150	2 times/year
	≥ 1.5 - <2	150	3 times/year
	≥ 2 - <2.5	150	4 times/year
	≥ 2.5	150	Continuous*
Carbon monoxide (CO)	-	1000	Periodic

* Averaging time for continuous monitoring is 30 minutes

In the case of boilers, the thermal efficiency must be at least 90%.

Reference conditions for the emission limit values are dry gas at 0°C (273 K) and 101.3 kPa. The CO₂ reference content is 12%.

Opacity standard

All facilities are required to meet opacity limits. Emissions are not permitted that are darker than shade no. 1 on the Ringelmann Chart, or greater than 20% opacity when measured with a transmissometer.

This paper reflects the IEACCC understanding of the relevant legislation and is not a substitute for the official version. The IEACCC 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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