

Envibat WESP Installation

Graphite production

Norway

Air pollution control for graphite producer

The customer produces graphite for industrial use, and saw the need to improve its air pollution control system due to regulations and their own goal of achieving a more energy efficient process.

The emission limits for this plant were set to 5 mg/Nm³ for dust, and 5 mg/Nm³ for sulphur trioxide.

The sulphur trioxide (SO₃) is present as sulphuric acid mist, and can lead to the visible phenomenon known as "blue haze". Thanks to the WESP, this phenomenon is avoided in this application.

A new wet electrostatic precipitator from Envi-bat was installed in 2019. The result of this improvement, a plant with emission of only 2.8 mg/Nm³ of sulphur trioxide, meets current and future environmental requirements.

Process data

Gas flow	16 000 Nm ³ /h
Dust emission limit	< 5 mg/Nm ³
SO ₃ emission limit	< 5 mg/Nm ³
Measured SO ₃ emission	2.8 mg/Nm ³

