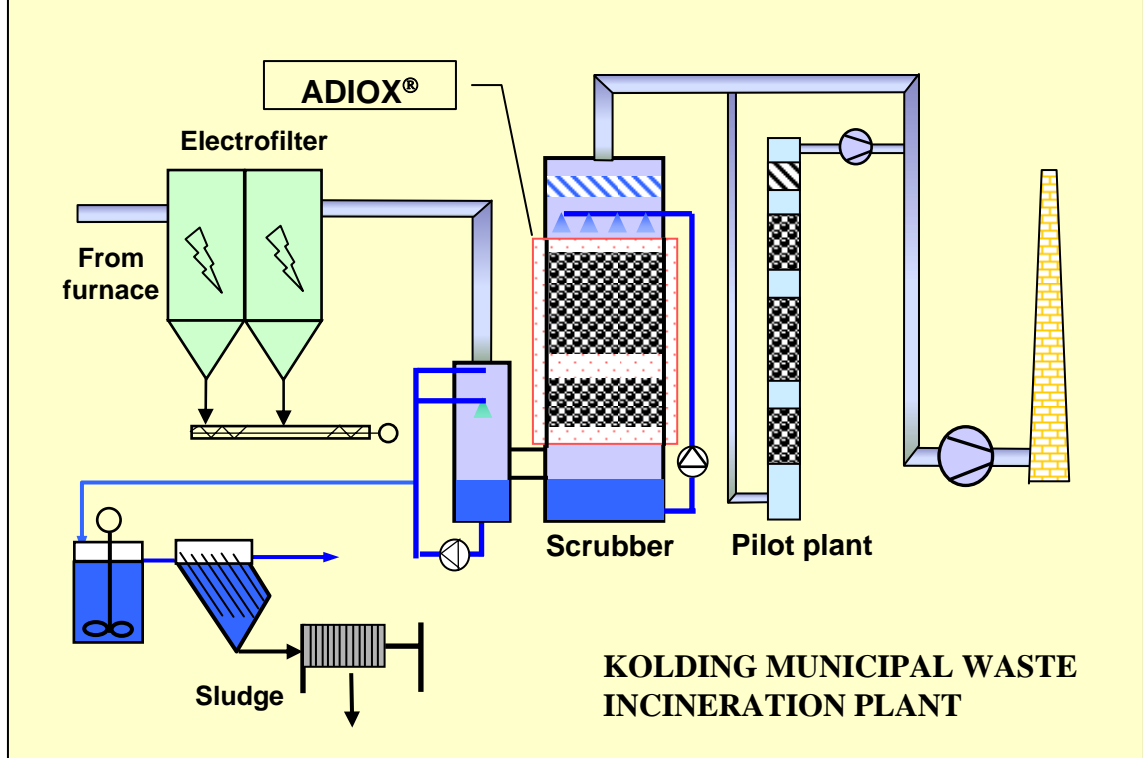


Dioxin removal by ADIOX[®]

**Kolding municipal waste incineration plant
in Denmark**





General aims:

To obtain a significant reduction in dioxin emissions by reasonably simple means.

Description:

In May 2002, ADIOX® tower packing material was installed in two ten-year old scrubbers at the Kolding municipal waste incineration facility in Denmark.

The heat and power plant incinerates some 100,000 tons of waste annually, producing approximately 200 GWh of heat and 50 GW of electricity.

For development purposes, a pilot plant was simultaneously positioned in series with one of the scrubbers. The pilot is equipped with ADIOX® tower packing material as well as an ADIOX® demister.

The furnaces generate some 80,000 Nm³/h (line 2) and 35,000 Nm³/h (lines 3 + 4) of flue gas respectively.

The extent of the ADIOX® installation varies between the two lines. Results from line 2, where the major part of the ADIOX® is installed, show a 79% reduction in dioxin levels. This is a mean figure from measurements made during the first six months of operation. In the various measuring campaigns carried out, the dioxin concentrations ranged from 1 to 5 at the inlet, and down to 0.2 to 1 at the outlet of the line 2 scrubber. Much lower levels have been measured at the outlet of the pilot scrubber.



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