

Commanding emissions control and energy recovery

• Energy-efficient solutions for minimised environmental impact from industrial or energy-producing plants are the business concept for Göteborg-based Götaverken Miljö.

“Our operations are characterised by environmental responsibility and compliance with the requirements of industrial customers in areas such as the cleaning of environmentally-hazardous emissions and the recovery of energy,” says Lennart Gustafsson, the company’s CEO.

He pinpoints their dedicated efforts during recent years to develop their core operations – gas cleaning and servicing of large heat pumps – that have brought about increased confidence on the market both at home and globally. These operations are focused around the specialities dry and wet flue gas cleaning systems for the removal of the very toxic chemicals, dioxin and mercury.

New and interesting solutions

“We now have access to world-leading technologies in flue gas cleaning, among them the new dioxin removal method ADIOX and the MercOx process for cleaning gases from mercury,” says Gustafsson. “These technologies complement our reliable scrubber systems for cleaning gases from heavy metals, sulphur and hydrochloric acid to emission levels well below the current requirements stipulated by public authorities.”

Gustafsson explains that they successfully carried out a full scale pilot installation using their ADIOX technology in Thisted Denmark in 2001 followed by their first commercial installations in 2002. “As a result, we are increasing our focus on developing our own unique ADIOX and MercOx concepts, enabling us to offer new and interesting solutions to new branches in the global market. So far we have delivered these technologies to about 35 incineration lines located mostly in Europe, and now even one in Canada.”

Best technology

Götaverken Miljö AB, with 25 employees, is located in Göteborg, and has its origins in the Götaverken, a large industrial group consisting of shipyards and boiler manufacturers. Gustafsson states that Götaverken Miljö AB was founded as a separate company from the Götaverken Group in 1988. This was so that the newly-formed company could concentrate on flue gas cleaning and heat pump development as well as becoming 100 per cent environmentally orientated for energy recovery. Since 1998, Götaverken Miljö AB has been fully-owned by Sjätte AP-fonden, the Sixth Pension Fund of Sweden. This is a development fund dedicated to developing small to medium-sized companies. Presently, 70 per cent of the market is outside Sweden. The company’s turnover for 2004 was SEK 102 million.

Recently, Götaverken Miljö AB with their ADIOX technology was also listed in a draft EU BREF document among companies with best technologies to be used in waste incineration plants.

Examples of completed installations

Asked to give examples of the sort of companies Götaverken Miljö AB has delivered its technologies to, Gustafsson mentions Stora Enso

in Finland. “This is our first order from the Pulp and Paper industry. This is a very prestigious order for us as Stora Enso has a global presence and is very much involved in energy production from biomass fuels.”

Gustafsson then talks about their ADIOX technology for handling the total dioxin removal at the two waste incineration lines of the Måbjergvæket plant in Denmark. “This plant is the very first of its kind where the wet cleaning is preceded by only an electrostatic precipitator, and the total dioxin removal takes place using our ADIOX technology.”

“Another example is SYSAV in Malmö which chose us to provide the two oldest incineration lines of their plant with a common scrubber system. In order to comply with new EU directives, the primary aim of the installation is to reduce emissions to the atmosphere and also to recover energy,” says Gustafsson.

New partners sought

Gustafsson underlines their company’s awareness of the latest EU directives for emission standards and waste incineration that will come into force in January 2006. “We are fully prepared, and our technologies are geared to fulfil all demands and directives when upgrading installations within the EU and globally.”

Gustafsson also indicates their desire to find new partners to help them penetrate markets abroad where demand for their technologies is expected to increase dramatically. “We even predict adapting our ADIOX and MercOx technologies for use in other areas such as the metal industry, the incineration of sludge, and even soil remediation.”

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World-leading technologies

