

‘Ideal case of landfill gas exploitation’:

## ■ **Berlin Environmental Award 2001 for the Schwanebeck landfill power station**

The Berlin Environment Award – the famous award of the Berlin Senate Administration for Urban Development – is awarded yearly for the categories environmental protection and nature conservation as well as special performances.

In the field of environmental protection the Berlin town cleaner’s (BSR) was honoured for the installation of the Schwanebeck landfill gas utilisation plant in 2001.

### **Most efficient landfill power station in Germany**

Currently, the cogeneration plant driven by landfill gas is one of the greatest landfill power stations in Germany with an electrical performance of approximately 5 MW and a thermal performance of about 6,5 MW. The plant was constructed by HAASE Energietechnik, Neumuenster. The planning institution was the engineering firm IGEA GmbH, Berlin.

HAASE Energietechnik installed a booster unit, a flare, 3 pcs CHP containerised

modules and 3 pcs CHP modules in a stationary building.

### **Ideal energy balance**

One part of the electrical energy is used for the own need of the landfill, while the major part – sufficient for the supply of 30,000 inhabitants – is flowing into the public net. The optimal utilization of warmth is especially emphasized in the ground of the jury:

‘The unique concept of the energy combine with a power station was developed to make also use of the incurring warmth energy. Thus the BSR could realise the ideal case of landfill gas exploitation with the complete utilization of electricity and warmth.’

### **Furthermore the ground says:**

‘They managed to achieve three targets at the same time with the help of this project: Prevention of harmful emissions, production of electricity and utilization of waste heat.’