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Market Study Industrial Sewage Plants Germany

Plants – Structures – Technologies – Trends

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ecoprog / Fraunhofer UMSICHT

Market Study Industrial Sewage Plants Germany

Germany is the largest European market for the industrial treatment of wastewater – there are almost 3,000 treatment plants in nearly 12,000 discharging companies within the manufacturing industry in Germany. In this country, more than 920 million cubic metres of industrial wastewater are treated annually before being discharged into the environment or the public sewerage. The pollution loads vary considerably – in contrast to municipal wastewater treatment. They reflect the German industrial structure, which is to some extent very heterogeneous.

Due to the established industrial structure, the construction of new treatment plants is limited. However, there will still be sustainable investments in the wastewater treatment within the industry in the coming five years – as a consequence of stricter legal requirements, like the EU Water Framework Directive, and the increasing cost pressure due to rising energy costs.

In the light of this development, ecoprog and Fraunhofer UMSICHT analysed the German industrial sewage plants in detail. In doing so, we did not only use our own market knowledge. The study also includes findings of public consultations, of authorities, business associations and companies within the sector of water management.

Thus, we offer an up-to-date analysis of figures, facts, estimations and trends in the sector of operating companies within the industrial wastewater treatment in Germany, which is of interest for disposal companies, suppliers, operators, business associations, research institutes and consultants.

The "Market Study Industrial Sewage Plants Germany" includes:

- A description of the extent, structure and branch mix in the sector of industrial wastewater treatment in Germany.
- A detailed analysis of all essential political, economic, managerial and technical trends in operating industrial sewage plants in Germany.
- An analysis of the particular allocation of treatment plants and their industrial structures on the level of the German federal states.
- A description of the almost 400 industrial sewage plants in Germany, mostly including essential technical data, like capacities, industry sector, treatment technology and contact addresses. These plants represent approximately 50 percent of the industrial wastewater treatment in Germany.

The study is available in English and German language starting from 1,800.- \in plus VAT. Subscribers of ecoprog's w&b Monitor will receive a discount starting from 600.- \in . Please find detailed price information at the end of this extract.

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In every industry, there is a "loss" of water, which is needed for the products themselves or "consumed" in the course of the production process (for example, it evaporates). This loss, however, only varies slightly in the different industries. The largest loss occurs in the case of extracting fossil fuels.

4.3 Types of use of water

The main part of the water is used for cooling, also in the industry and the commercial sector. This is particularly true for cooling energy generation plants, of which many can also be found in the commercial sector.

Only about 17 per cent – almost 1.5 billion cubic metres – of the water are used for production specific purposes. The amount of unused water, which is discharged, is almost as large.

These shares, however, vary in the particular sectors – in some cases, considerably. Especially companies within the coal mining sector and the chemical industry use the cooling water to a large extent. In contrast, paper conversion or food industry companies rather use the water for the production itself. This is why in these cases the water is also more polluted – unlike in the case of cooling the water.





The other mining sectors also use the water for production purposes especially. The vast majority of the water is only used once, which is also due to the cooling.

The share of re-used water is the highest where the water is extensively used for production purposes. Within the paper industry, for example, almost 50 per cent of the used fresh water is used two or several times, in the case of processing glass and ceramics, the share is 40 per cent. In the chemical industry, by contrast, only 23 per cent



1.1 Schleswig-Holstein

17,057 (< 1%)	Whereof treated	2,832,950	Inhabitants
3,929,965 (96%)	Direct discharge	117	Number of treatment plants
161,429 (4%)	Indirect discharge	4,091,394	Discharge total (m m ³)

Schleswig-Holstein is one of the most rural federal states. The industrial structure also reflects this fact. About 230 companies of the manufacturing sector (with a total of around 1,200 companies) work in the food and feeding stuff industry. Together with mechanical engineering – about 150 companies work in this sector –, these sectors generate almost 40 per cent of the turnover of the manufacturing industry.



Figure 42: Known treatment plants in Schleswig-Holstein by industries

The amount of discharges in Schleswig-Holstein is, with more than four trillion cubic metres, larger than average. This sum, however, also includes the energy industry, of which the two nuclear power plants Brokdorf and Brunsbüttel preponderate in the relatively small federal state. In



Schleswig-Holstein, more than 99 per cent of the industrially used wastewater is used for cooling purposes.

The Federal Statistical Office identifies a total of 117 companies within the manufacturing sector as dischargers with larger treatment plants. On the federal level, Schleswig-Holstein only collects information on the dischargers – their number amounts to about 250. There is no information on the wastewater treatment plants in the industry.





The vast majority (about 90 per cent) of the wastewater, which is treated in industrial sewage plants, falls upon the chemical industry and the production of paper and cardboard.

Known companies with wastewater treatment plants

Aukrug

Fachklinik Aukrug Mr. Pomplun 24613 Aukrug Tel. 0 48 73 90 97 0 Fax 048 73 9097 990 info@fachklinik-aukrug.de. www.fachklinik-aukrug.de

Sector: other Type of discharge: direct Treatment: activation; drying beds VION Frankfurt GmbH Mr. Peter Overmann Tegelbarg 19-21 24576 Bad Bramstedt Tel. 04192 503 0 Fax 04192 89 46 0 info@nfz.de www.nfz.de

Sector: food and feeding stuff industry Type of discharge: indirect

Bad Oldesloe

Heinrich Sengelmann Krankenhaus

Bad Bramstedt



Mr. Martens Kayhuder Str. 65 23863 Bad Oldesloe Tel. 0 45 35 505 0 Fax 045 35 505 354 hsk@alsterdorf.de www.heinrich-sengelmann-krankenhaus.de

Sector: other Type of discharge: direct Treatment: Activation; unheated digester, agricultural use, nitrification, denitrification, chemical phosphorus elimination, sand filters

Damp

Ostseebad Damp GmbH & Co. KG Mr. Jürgensen 24349 Damp Tel. 0 4352 80 10 00 Fax 04352 8089 21 ostseebad@damp.de www.damp-urlaub.de

Sector: other Type of discharge: direct Treatment: activation; centrifuge, nitrification

Flensburg

Mitsubishi Paper HiTec Flensburg GmbH Mr. Dr. Storck Husumer Str. 12 24941 Flensburg Tel. 04 61 86 95 0 Fax 04 61 86 95 5 00 info.mpf@mitsubishi-paper.com www.mitsubishi-paper.com

Sector: paper industry Type of discharge: direct/indirect Size (m³): 10 Polluting load: dir.: resin, starch; indir.: organic and anorganic pigments, bonds Treatment: mechanical/physical; chemical/physicochemical; biological treatment

Glückstadt

Steinbeis Papier Glückstadt GmbH & Co. KG Mr. Nahrath Stadtstrasse 2-14 25348 Glückstadt Tel. 04124 911 446 Fax 04124 911 508 info@stp.de www.stp.de

Sector: paper industry Type of discharge: direct

Steinbeis Papier Glückstadt GmbH & Co. KG Mr. Narath 25343 Glückstadt Tel. 0 41 24 9 11 446 Fax 041 24 9 11 2 10 info@stp.de www.stp.de

Sector: paper industry

Hohenwestedt

Nordmilch eG Mr. Schrader, technical operations manager Itzehoer Straße 54 24594 Hohenwestedt Tel. 04871 28 161 Fax 04871 28 251 info@nordmilch.de www.nordmilch.de

Sector: food and feeding stuff industry Type of discharge: direct

Itzehoe

Breitenburger Milchzentrale eG Mr. Janß



Register of plants

Aalen 34 Böhlen 123 Abenberg 44 Bomlitz 86 Albbruck 34 Borstel 86 Altenkirchen 100 Bramsche 87 Altenkirchen 100 Bremen 68 Altenkirchen 100 Bremen 68 Altenkirchen 114 Burgkirchen 46 Anderach 114 Burgkirchen 46 Anderach 114 Burgkirchen 46 Anweiler 114 Burgkirchen 46 Arneburg 129 Celle 87 Aukrug 134 Catisheim 33 Aukrug 134 Damp 134 Bad Dirburg 100 Dargun 88 Bad Bramstedt 134 Damp 134 Bad Dirburg 100 Dargun 81 Bad Vimpfen 144 Dessau 129 Bad Vimpfen 34 Dilenburg 74 Bad Vimpfen 34 Dingden 102 Baientut <t< th=""><th></th><th></th><th></th><th></th></t<>				
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