

**References Waste and Wastewater**

<b>Project</b>	<b>Location</b>	<b>Substrat</b>	<b>Technical Data</b>	<b>Service UTEC</b>	<b>Customer</b>	<b>Year</b>
<b>Cooling of mud stabilisation</b>	Wiefels Niedersachsen	aerobic stable digestate	Mud cooling in order to comply with the allowable temperature limits. Installation of heat exchangers and cooling tower.	concept, assessment of suitable cooling system, supervision	AWZ Wiefels	2011 -2012
<b>Biogas plant for whey</b>	Bremen Niedersachsen	whey	Feasibility study with laboratory tests for fermentation of acid whey in order of a major north-german dairy. Combination of wastewater treatment	Determination of biogas potential in batch experiments and in fixed bed; system design; digestate ad gas recovery, cost estimation	Hansewasser Bremen	2010
<b>Organic Waste Fraction and Biogas</b>	LK Mi.-Lü. Nordrhein-Westf.	organic waste fraction	biogas plant for the organic waste fraction in the county of Minden-Lübbecke, biogas treatment, feed into the natural gas pipeline	concept, assessment of suitable techniques, economical evaluation in cooperation with PIPA Münster	AML	2007
<b>Aquaculture</b>	Amt Neuhaus Niedersachsen	wastewater	wastewater treatment for a sturgeon aquaculture	draft and detail planning, installation and optimization	Teldau Fischzucht GmbH & Co KG	2003
<b>Agricultural Center Gülze</b>	Kreis Hagenow Mecklbg.-Vorp.	water, wastewater, organic waste, manure	agricultural biogas plant, aquaculture and greenhouses	concept for water supply, waste and wastewater treatment, economical evaluation, permission planning, subsidies	Teldau Agrar GmbH	2003
<b>Compost Plant</b>	Amt Neuhaus Niedersachsen	organic waste	various techniques of composting, treatment times, temperature development	Scientific monitoring during commissioning and operation	Hanseatische Humus GmbH	2002
<b>Slaughterhouse</b>	Bremen	wastewater	water treatment and disinfection of water from car washing	draft planning, economical evaluation	Schlachthof Bremen	2000
<b>Wastewater Shipyard</b>	Bremerhaven	wastewater	disposal of industrial wastewater from 4 shipyard docks	planning of the wastewater system	Lloyd-Werft Bremerhaven	1999
<b>Waste Wood Storage</b>	LK Hameln Nordrhein-Westf.	waste wood fraction	storage system for waste wood fraction and wooden threshhold	permission planning and application (BlmSchG)	Envitec GmbH & Co KG, Kalletal	1997

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<b>Compost Plant</b>	Amt Neuhaus Niedersachsen	organic waste	compost plant in the county of Lüneburg (15.000 t/a)	application according to § 15 BImSchG	Hanseatische Humus GmbH	1996
<b>Soil Treatment and Compost Plant</b>	LK Minden Nordrhein-Westf.	waste	soil treatment plant (45.000 t/a), compost plant (80.000 t/a), compost storage	permission planning and application (BImSchG)	RELUX GmbH	1996
<b>Digester in Wastewater Treatment Plant</b>	Bremervörde Niedersachsen	flotation material	extension of the digester capacity in the wastewater treatment plant	feasibility study with cost estimation and economical evaluation	Stadtwerke Bremervörde	1996
<b>Disposal of Slaughterhouse Waste</b>	Paderborn Nordrhein-Westf.	screenings	highly intensive container compost systems for rumen content and screenings	practical tests in technical scale	Westfleisch	1996
<b>Composting Tests</b>	Amt Neuhaus Niedersachsen	screenings	container composting for screenings, implementation into practice	Laboratory tests and in technical scale, designing the components for an industrial scale plant	RELUX GmbH ATV e.V.	1995
<b>Soil Treatment and Compost Plant</b>	Menteroda Thüringen	waste	soil treatment plant (45.000 t/a), compost plant (80.000 t/a)	draft- and permission planning, application according to BImSchG	RELUX GmbH	1995
<b>Disposal of Slaughterhouse Waste</b>	Münster Nordrhein-Westf.	slaughterhouse waste	longterm safe disposal of rumen content and flotation sludge	feasibility study with data research, cost estimation for alternative solutions, economical evaluation	Westfleisch	1995
<b>Revitalisation of Bioethanol Plant</b>	Ahausen Niedersachsen	organic waste	revitalization of biogas plant, wastewater treatment plant and production within a former bioethanol plant	feasibility study with data research, cost estimation for alternative solutions, economical evaluation, permission planning, application according to BImSchG	private Betreiber GmbH	1995

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<b>Disposal of Slaughterhouse Waste</b>	Paderborn Nordrhein-Westf.	slaughterhouse waste	feasibility study for the utilization of the solid wastes in the slaughterhouse Paderborn	disposal concept	Westfleisch	1992
<b>Composting</b>	Hamburg	rumen content	optimization of rumen content composting	R&D works within BMFT Verbundvorhaben "Kompostierung"	Stadt Hamburg	1992
<b>Manure Treatment</b>	Bremen	manure	treatment of manure according the demand of elimination of Nitrogen and Phosphorus	R&D technical development, sponsored by Bremen	Land Bremen	1989
<b>Compost Plant</b>	Hamburg	organic waste	compost plant for rumen content in Hamburg -Moorfleet	Concept, permission planning, detail planning, supervision, commissioning	Bio Erden GmbH & Co KG	1988
<b>Manure Storage Systems</b>	Achim Niedersachsen	manure	central manure storage system taking a later biogas plant into account	feasibility study, cost estimation, economical evaluation	Stadt Achim	1988
<b>Separation of Rumen Content</b>	Hamburg	rumen content	installation of a separator for rumen content at slaughterhouse Hamburg (KSH), wastewater collecting tank	Concept, permission planning, detail planning, supervision, commissioning	Stadt Hamburg	1987
<b>Slaughterhouse Jakarta</b>	Jakarta Indonesien	waste, wastewater, energy	treatment of waste, wastewater, energy supply	data research and analysis within BMFT-project "Deutsch-Indonesische Zusammenarbeit auf dem Gebiet der biotechnologischen Forschung"	TÜV Rheinland FAL	1986
<b>Disposal of Slaughterhouse Waste</b>	Hamburg	rumen content	treatment and disposal of rumen content in a slaughterhouse in Hamburg (VFZ)	feasibility study within a R&D-project from BMFT	Stadt Hamburg	1986
<b>Separation of Pollutants from the Organic Waste Fraction</b>	Bremen	organic waste fraction	extraction of pollutants in the organic waste fraction with an upstream washer	tests in a technical scale	Land Bremen	1986

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<b><i>Biological Wastewater Treatment</i></b>	Deutschland	industrial wastewater	biological wastewater treatment and treatment of biomass in industry	potential analysis	Hako-Werke	1983

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