

**References Municipal Energy Concepts**

<b>Project</b>	<b>Location</b>	<b>Technical Data</b>	<b>Service UTEK</b>	<b>Customer</b>	<b>Year</b>
<b><i>Energetic concept</i></b>	Bad Oldesloe	Integrated Concept	Inventory, scenarios, recommendations active participation of the inhabitants	Stadt Bad Oldesloe	2015
<b><i>District heating</i></b>	Soltau	District heating Stühbeckshorn	Dimensioning of cogeneration plant and biomass system	Lobetalarbeit e.V.	2014
<b><i>Climate protection concept Kiel</i></b>	Kiel	Climate protection concept for CAU in Kiel	Inventory of consumption and technology, formulation of measures Recommendations for action	CAU Kiel	2013
<b><i>Local heating newly built houses</i></b>	Cloppenburg	Possibilities of a central heat supply due to increased requirements of the Energy Saving Ordinance	EnEV balances, full heat cost accounting, environmental accounting	EWE AG	2013
<b><i>Local heating newly built houses</i></b>	Winsen	Environmental and economic comparison of local and central heat systems in an area of newly built houses	Data collection, calculations, cost analysis, recommendations for action	Stadtwerke Winsen	2012
<b><i>Bioenergy use Damme</i></b>	Damme Niedersachsen	Block heat utilization for bioenergy potential study Damme	Determination of biomass potential	Stadt Damme	2010
<b><i>Climate-protection-part concept Churches</i></b>	Stade Niedersachsen	Possible saving design for 14 public buildings	Inventory, calculation of savings	BEKS	2010
<b><i>Climate-protection-part concept Churches</i></b>	Bremen	Possible saving design for 10 public buildings	Inventory, calculation of savings	BEKS	2010
<b><i>Climate concept Kiel</i></b>	Kiel	Climate-friendly energy generation and supply concept Kiel	Energy-/CO <sub>2</sub> balance, energy forecasts, biomass potential	Stadt Kiel	2009 -2010
<b><i>Local heating residential housing</i></b>	Bremen	Study of the potential district heating based on combined heat and power	CHP sizing for heating system, economic feasibility, assessment of potential	Land Bremen	2009 -2010

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<b><i>Energy Concept Bicentenario Santiago de Chile</i></b>	Chile	renewable energies for a new city district (70.000 inhabitants) in Santiago de Chile „Ciudad Parque Bicentenario“	data research, dimensioning, economic evaluation, recommendations, report	gtz GmbH Eschborn	2007
<b><i>New Settlement in Lüneburg</i></b>	Lüneburg Niedersachsen	energy concept within the city planning, conversion of barracks	data research, dimensioning, economic evaluation, recommendations	Stadt Lüneburg	2005
<b><i>Energy Concept Neuer/Alter Hafen Bremerhaven</i></b>	Bremerhaven	technical and economical comparison of alternative heating systems, utilization of renewable energies and innovative techniques	data research, concept, economic evaluation, recommendations	BEAN Bremerhaven	2001
<b><i>CO<sub>2</sub>-Balances</i></b>	Kiel	energy- and CO <sub>2</sub> -balance for the City of Kiel; updating of the CO <sub>2</sub> -balance for the year 2000	data research, concept, report	Stadt und Stadtwerke Kiel	1999 2002
<b><i>Energy Program for Bremen Country</i></b>	Land Bremen	„Energy Program for the Country of Bremen“ (Freie Hansestadt Bremen und Stadtwerke Bremen AG)	consultations	Land Bremen, Umweltsenat	1997 1998
<b><i>Building Typology Schleswig-Holstein</i></b>	Schleswig-Holstein	building typology for Schleswig-Holstein	data research, energy saving potentials, economic evaluations, in cooperation with GERTEC	Investitionsbank SH	1997
<b><i>Energy Agency Weyhe</i></b>	Gemeinde Weyhe Niedersachsen	Establishing a municipal energy agency	concept and consultations	Gemeinde Weyhe	1996
<b><i>Energy Concept Bremen</i></b>	Land Bremen	scenarios with the stress on cogeneration potentials and renewable energies	data research, recommendations	prognos AG	1995

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<b>Energy Concept Malente</b>	Malente Schleswig-Holstein	calculation of the CO <sub>2</sub> - relevant energy saving potentials especially in public properties, district heating and RE-potentials	data research, concepts, potentials, economic evaluations, recommendations	Stadt Malente	1994
<b>Energy Concept Timmendorfer Strand</b>	Timmendorfer Strand Schleswig-Holstein	calculation of the CO <sub>2</sub> - relevant energy saving potentials especially in public properties, district heating and RE-potentials	data research, concepts, potentials, economic evaluations, recommendations in cooperation with the energy company	Gemeinde Timmendorfer Strand	1993 -1995
<b>Energy Concept Delmenhorst</b>	Stadt Delmenhorst Niedersachsen	scenarios to the future energy demand, CO <sub>2</sub> -emission reductions, extending the natural gas supply, energetic building typology for municipal properties, cogeneration plant for a former barrack and a hospital	data research, concepts, potentials, economic evaluations, recommendations in cooperation with the energy company	Stadt Delmenhorst	1992
<b>Energy Concept Barth</b>	Stadt Barth Mecklenbg.-Vorp.	szenarios to the future energy demand, district heating, energy saving potentials for municipal properties, wind farms	data research, concepts, potentials, economic preview for the "Stadtwerke Bath"	Stadt Barth	1992
<b>Energy Concept Preetz</b>	Preetz Schleswig-Holstein	energetic property cadastre and detail studies for municipal properties, cogeneration at the wastewater treatment plant	data research, concepts, potentials, recommendations	Stadt Preetz	1992
<b>Energy Concept Lübeck</b>	Stadt Lübeck Schleswig-Holstein	energy saving potentials for municipal properties as part of the energy concept Lübeck	data research, concepts, potentials, recommendations	Stadt Lübeck	1992

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<b>Energy Concept</b> <b>Stuhr/Weyhe</b>	Stuhr / Weyhe Niedersachsen	strategies for CO <sub>2</sub> -savings, overtaking the power supply, economic preview, potentials for district heating and cogeneration	data research, concepts, potentials, recommendations	Gemeinden Stuhr und Weyhe	1991 -1992
<b>Energy Concept</b> <b>Ratekau</b>	Ratekau Schleswig-Holstein	energy- and emission balance, energetic cadastre for municipal properties, wind and water power utilization	data research, concepts, potentials, economic evaluations, recommendations, consultations	Gemeinde Ratekau	1991
<b>Energy Concept</b> <b>Wustrow</b>	Gemeinde Wustrow Mecklenbg.-Vorp.	energy and emission balance, heat atlas, district heating with cogeneration, utilization of geothermic energy, wind and solar energy	data research, concepts, potentials, economic evaluations, recommendations	Gemeinde Wustrow	1991
<b>Energy Concept</b> <b>Rostock</b>	Hansestadt Rostock Mecklenburg- Vorpommern	designation of priority areas for gas supply and district heating, inventory, development of energy scenarios, future development of pipe-based heating systems, identification of CHP potentials, energy savings in public properties	data research, concepts, potentials, economic evaluations, recommendations	Stadt Bremen/Stad- werke Bremen mit EU- Förderung	1990 -1991
<b>Energy Concept</b> <b>Halstenbek</b>	Halstenbek Schleswig-Holstein	Energy services by the energy company, identification of CHP potentials, district heating systems, solar energy	data research, concepts, potentials, economic evaluations, recommendations	Gemeinde Halstenbek	1990
<b>Energy Concept</b> <b>Uetersen</b>	Uetersen Schleswig-Holstein	energy- and emission balance, energetic cadastre for municipal properties, district heat and CHP potentials, renewable energies	data research, concepts, potentials, economic evaluations, recommendations	Stadt Uetersen	1990

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<b><i>Energy Concept Land Bremen</i></b>	Land Bremen	energy saving potentials in buildings (building typology), estimation of district heat potentials, CHP-potentials, exemplary cogeneration plants in industry, emission balance	calculating modules of the Bremen energy concept, data research, analysis, calculations, recommendations	Land Bremen, Umweltsenat	1989 -1990
<b><i>Energy Concept Meldorf</i></b>	Meldorf Schleswig-Holstein	energy- and emission balance, forecast, energetic cadastre for municipal properties, district heat and CHP potentials, renewable energies, consultations, starting own municipal utilities	data research, concepts, potentials, economic evaluations, recommendations	Gemeinde Meldorf	1989
<b><i>Energy Concept Landkreis Verden</i></b>	LK Verden Niedersachsen	energy demand in residential, with consumers and industry, heat atlas, district heating potentials, CHP concept for a wastewater treatment plant	data research, concepts, potentials, economic evaluations, recommendations	Landkreis Verden	1989
<b><i>Energy Concept Wedel</i></b>	Wedel (Holst.) Schleswig-Holstein	detailed data research, energy potentials, emission balances, tariffs	data research, concepts, potentials, economic evaluations, recommendations, in cooperation with IFEU/Heidelberg	Stadtwerke Wedel	1987 -1988