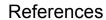


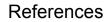
2021 - 2022	KoReNaRo – R&D project to develop a comprehensive concept for recycling and reuse of rotor blades made of plastic composite materials, BMBF
2021 - 2022	$TH_2OR-R\&D$ project to develop an IT-based tool to assess and improve the resource efficiency of plants for production of green hydrogen (FEI program to fund research, development and innovation in Bremen)
2021	Sorting analysis and laboratory tests of lightweight packaging and commercial waste sorting residues from waste processing plants in Bremen
2021	Expert report in accordance with commercial waste ordinance
2021	Laboratory tests on waste from industry and development of new disposal options
2021	Preparation of CO_2 balances for waste treatment and wastewater plants in North Rhine-Westphalia
2021	Sorting analysis of household waste and bio waste in a rural district in Lower Saxony
2020	Lecturer on AGS in the context of a master class in Northern Germany
2020	Expert report to determine the effects of the closure of a landfill in Northern Germany
2020	Laboratory tests for the recovery of residues from disinfection and classification of the residues in accordance with the Waste Catalogue Ordinance
2020	Laboratory tests on wastewater from paper production and development of first approaches for the treatment and recycling
2020	Technical and economic assessment of 3 biogas plants in Mecklenburg-West Pomerania
2020	Expert report on the sealing of a digestate storage container
2020 - 2022	R&D project to develop a resilient and self-learning recovery network for the recycling of wind turbines. Applied environmental research (AUF program to fund applied environmental research): RecycleWind 2.0
2020 - 2021	R&D projects to develop concepts for the automatic sorting of large pieces of waste and thus to improve the recycling rate in this sector. For this, state-of-the-art technologies from robotics, sensors and AI are used. AI lighthouses for the environment, climate, nature and resources: AI and robotics for a sustainable circular economy (SmartRecycling), BMU
2020	Studies on quality of finished compost
2020	Calculation of electricity losses for biogas plants when feeding into the grid
2020	Analysis for treatment of waste water from paper production
2020	Concept generation for the establishment of a recycling and disposal centre for onshore and offshore wind turbines in Bremerhaven
2020	Workshop "Recycling of plastic waste – use of recyclates in industry and commerce"
2019 - 2020	Consulting services for waste management as part of planning for the reconditioning of port facilities in Zanzibar
2019	Lecturer on AGS in the context of a master class in Northern Germany
2019	Expert report to determine the degree of completion of a bio-waste fermentation plant in Italy
2019	Expert report on the functionality and efficiency of a planned biogas plant in Brandenburg
2019	Expert report on a district heating network in Rhineland-Palatinate



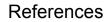
2019	Semi-industrial fermentation tests for determining the suitability of cattle and pig manure as feedstock in dry fermentation (batch)
2019	Expert report on damage to a generator
2019	Determination of the calorific value of sorting residues from commercial waste treatment
2019	Planning services for upgrading of a biogas plant in lower Saxony
2019	Expert report on commercial waste ordinance for a company in Bremen
2019	Sorting analysis of waste paper from municipal collection for a city in Lower Saxony
2019	Networking to empower businesses and to promote more sustainable production through recycling of plastics
2019 - 2021	7 th Energy Research Programme of the Federal Government "Research for an environmentally-friendly, reliable and affordable energy supply": EnEff:Bremerhaven – Smart Harbor Application Renewable Integration Concept (SHARC)
2018 - 2019	Material flow analysis of waste in a harbor district
2018 - 2019	Operation support for optimization of bio-waste treatment and recycling in North Rhine-Westphalia
2018 - 2019	Sorting analysis of residual waste for a city in Lower Saxony
2018	Studies on the state of construction waste utilization in Bremen
2018	Technical-economic assessment of composting sites for green waste
2018	Sorting analysis of commercial waste from a commercial waste sorting plant
2018	Investigations on the separation of plastic-wood-mixtures of a production company in North Rhine-Westphalia
2018	Expert report on the value of planning documents as a basis for calculations for the construction of biogas plants in Mecklenburg-West Pomerania
2018	Expert report on damage to a biogas plant in North Rhine-Westphalia
2018	Expert report on commercial waste ordinance for a company in Lower Saxony
2018	Expert report on commercial waste ordinance for a company in Bremen
2018	Sorting analysis on commercial waste of a car manufacturer in Bremen
2018	Preparation and evaluation of an online survey for a federation in Northern
2018	Laboratory tests on purification of ammonia contaminated wastewater
2018	Expert report in relation to the dry fermentation bonus for a biogas plant in Thuringia
2018	Expert report on commercial waste ordinance for a company in Lower
2018	Lecturer on AGS in the context of a master class in Northern Germany
2018	Expert report on damage to a biogas plant in Lower Saxony
2017	Expert report on damage to a biogas plant in Brandenburg
2017	Assessment of a biogas plant in Mecklenburg-West Pomerania
2017	Sorting analysis of different paper types of a paper mill in northern Germany



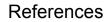
2017	Studies to determine the biodegradability of coffee capsules during composting
2017 - 2019	Plastics in the environment – Sources, sinks, potential solutions: KuWert, "Vessel-based treatment of plastics for the implementation of value chains in less developed countries and to avoid plastic input in the environment, particularly marine ecosystems", BMBF
2017	Composting test to determine the biodegradability of hygienic papers
2017	Expert report on damage to the gas storage roof at a biogas plant in North Rhine-Westphalia
2017	Expert report on damage to fermenters at a biogas plant in North Rhine-Westphalia
2017	Valuation on two biogas plants in Saxony-Anhalt
2017	Preliminary planning and investigations for the conversion of a rotting tunnel to a dry fermentation box
2017	Preparatory investigations at a biogas plant in Brandenburg for verification within the framework of an environmental expert report
2017	Expert report on a broken agitator of a biogas plant in Lower Saxony
2016 - 2017	Operation support and studies on process optimization of a composting plant in Lower Saxony
2016 - 2017	Expert valuation report of an insolvent biogas plant in Brandenburg
2016	Tender of a bio waste treatment plant in Baden-Württemberg
2016	Preparation of permit applications for improved performance of a biogas plant
2016	Preliminary emission measurement of a waste treatment plant
2016	Tender of a bio waste treatment plant in northern Germany
2016	Process assessment for treatment of bio waste from municipal waste collection
2016	Laboratory tests of specific biogas yield and quota of contraries of bio waste after pretreatment by DRM-Hybrid
2016	Sorting analysis of screenings from bio waste composting
2016	Investigations to optimize the treatment and recycling of bio-waste in Baden-Württemberg
2016	Tests of specific biogas yield for co-substrates of biodiesel production
2015 - 2019	Operation support of a wet fermentation plant for food waste in Lower Saxony
2015 - 2016	Semi-industrial fermentation tests for determining the suitability of various co-substrates as feedstock in dry fermentation (batch)
2015 - 2016	Studies on the extraction of wood and mulch from green and garden waste of a composting plant in northern Germany; Specification of bio waste and sorting analysis of sieving residues
2015	Sorting analysis of waste paper from municipal collection
2015	Expert report on the use of iron and lime sludge from water treatment in a biogas plant in Saxony
2015	Consulting/analysis of ashes and condensates from wood gasification plant for disposal
2015	Appraisal (degree of completion) of a fermentation plant in Italy
2015	Technical upgrading (emissions) of a CHP plant in Saxony
2015	Site-specific planning to set up a bio-waste digestion plant in Baden-Württemberg



2014 - 2017	Investigations to optimize the treatment and recycling of bio-waste in North Rhine-Westphalia
2014	Assessment of 5 biogas plants
2014	Laboratory tests of specific biogas yields of horse dung (200l approaches)
2014	Valuation of 12 biogas plants in North- an East-Germany
2014	Valuation of 2 biogas plants in Mecklenburg-West Pomerania
2014	Expert report on bio-waste utilization in a district of Baden-Württemberg
2014	Expert report on valuation of a biogas plant in the Hannover area
2014	Complementary study on tax issues after the sale of a biogas plant in the area of Lüneburg
2014	Laboratory tests to maximize biogas yields in the co-digestion of food waste (2001 approaches)
2014	Expert report on valuation of a biogas plant in the Leipzig area
2013 - 2015	Attendance of acquisition and optimization of a biogas plant for bio-waste near Bremen
2013 - 2014	Feasibility study, conceptual design and tender of a biogas plant for municipal bio-waste collected from trade and households for a large city in northern Germany
2013 - 2014	Expert report on valuation of a biogas plant in the administrative district of Vechta
2013	Laboratory tests of thermophilic and mesophilic co-digestion of bio-waste (200l approaches)
2013	Laboratory tests of specific biogas yields of bio-waste from Germany, Italy and Switzerland
2013	Assessment of fermentability of processed organic waste
2013	Studies on constructed wetlands for wastewater treatment
2013	Assessment of the expansion options of sewage treatment plants in Albania regarding the integration of a biogas plant to increase energy efficiency
2013 - 2015	Schaufenster Elektromobilität - Showcase Bavaria-Saxony "Electric Mobility combines": Demonstration use of refuse collection vehicles with hybrid drive and development of an optimized route planning software for hybrid vehicle
2013	Training program on "Biogas" in the context of wastewater treatment for the staff of Albanian wastewater utilities
2013	Sorting analysis to capture the proportion of small electrical appliances in the residual waste
2013	Training program: "Build-up, implementation and experiments of bio laboratory at the Polytechnical University of Tirana" under the "Capacity Development for a sustainable Energy and Climate Policy in Middle-and Eastern Europe"
2012 - 2013	Development of a model for estimating ${\rm CO_2}$ emissions from waste management measures at the level of "waste producers authorities"
2012 - 2013	Development of a concept for a lean gas storage to reduce emissions at a biogas plant
2012 - 2013	Development of a waste management concept for the offshore wind industry in northern Germany
2012	Consulting services for the construction of a biogas plant in northern Germany
2012	Expert report to assess the profitability of a biogas plant
2012	Mold measurement in a waste treatment facility in Lower Saxony

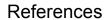


2012	Sorting analysis of household-type waste for a school in Lower Saxony
2012 - 2014	Optimization of occupational health and safety in the automotive industry (OptimAG)
2012 - 2014	Energy efficiency of buildings
2012	Fuel management in an RDF power plant in Lower Saxony
2012	Analysis of possible savings by the use of more efficient hybrid waste collection vehicles
2012	Sorting analysis of plastics (bulky waste) in a northern German city, and analysis of recovery options and opportunities
2012	Plausibility assessment and consulting services of a system concept for a biogas plant in India
2012	Laboratory tests of specific biogas yields of grass silage from Netherlands
2012	Sorting analysis of recyclables (yellow bag) in several rural districts in Lower Saxony
2011 - 2012	Exhaust measurement, optimization of the exhaust air streams, plant upgrading, etc. of a waste treatment plant in Thuringia
2011	Energy efficiency analysis of a plant site in Lower Saxony taking into account functional units
2011	Sorting analysis of household waste in several rural districts in Lower Saxony
2011	Carbon Footprint of a geothermal plant
2011	Feasibility study for the conversion of a composting plant in Nordrhein-Westfalen
2011 - 2014	Quality assurance in the food industry - emphasis fishing industry (QSL II)
2010 - 2011	Studies on the potential of the landfill remediation in northern Germany
2010 - 2011	Extension of the database for the evaluation of ${\rm CO_2}$ - emissions by efficiency evaluation of different value chain
2010	Emission measurements in an MBA in Lower Saxony
2010	Sorting analysis of household waste in an MBA in Lower Saxony
2010	Monitoring and attendance of performance record of a dry fermentation plant in Thüringen
2010	Studies on the market potential of small wind turbines
2010	Studies on the preparation of GRP remnants
2009-2010	Robot-assisted sorting of waste (ROSA)
2009 – 2010	Monitoring and attendance of performance record of dry fermentation plants for bio-waste in Lower Saxony and North Rhine-Westphalia
2009	Sorting analysis of waste paper, impurities in container places, illegal dumping and disposal of waste in public places in Bremen
2009	Development of a database for the evaluation of CO ₂ - emission of an energy supply company
2009	Studies on the optimization of ventilation in a box composting facility
2009	Feasibility study and construction of a biogas plant for anaerobic digestion of municipal organic waste
2009	Identify of specific biogas yields of hop crop residues, organic waste from the U.S., fines from residual waste, etc.



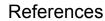


2009	Development of a refurbishment concept as well as consultancy and implementation for a wet fermentation plant for bio-waste in Lower Saxony
2008 - 2012	EU-Project: CODWAP, "Collaborative curriculum Development on waste management in Africa and Pacific region", EDULINK Programme
2008	Inventory, documentation and monitoring of a company's internal use or a sale of a waste treatment facility
2008	Studies on the orientation and development of the collection, treatment and recycling of organic waste
2008 - 2010	Strategies for technological change in the automotive crafts (StraTek)
2008 - 2010	Quality assurance in the food industry - emphasis fishing industry (QSL)
2008	Comparative life cycle assessment studies on the emissions from the transportation of waste on ship, rail and truck
2008	Case-specific identification and comparative analysis of the modes of transport truck and rail CO_2 emissions associated
2008	Co-digestion of sewage sludge and organic waste - consulting services to the current plans to optimize the digestion of a sewage treatment plant in Mecklenburg-West Pomerania
2008	Sorting analysis including types of plastics determination of input and output fractions of sorting of the recycling parks Lower Weser
2008 - 2010	RessourcenManager: A material flow model for the cycle and waste management
2008 - 2009	Aeration of digestate from the dry fermentation with 4 m bed height
2007	Studies on the reduction of the electric energy demand at a composting plant in Schleswig-Holstein
2007	Scientific support of commissioning of a biogas plant in Rheinland-Pfalz
2007	Inventory and prospects for development of the environmental industry in the state of Bremen
2007	Feasibility study for the treatment of grease from grease traps
2007 - 2009	EU-Project: INVENT, "Integrated waste management modules for different courses of graduate Studies", Asia-Link Programme
2007	EU-Training course (further education): "Response to chemical pollution", Training course to give an overview on the methodology to respond to chemical pollution by HNS at sea and on the seabed, EU-Training course in the field of accidental or deliberate marine pollution
2006 - 2007	Scientific support for the implementation of the concept for the adoption of loose residual waste
2006	Ecological and energetic assessment of recovery of moderate caloric waste
2006	Experts' report on the treatment options of the residual fraction from the secondary fuel treatment
2006 - 2007	Accompanying investigations to the commissioning of mechanical-biological waste treatment plant in northern Germany
2006 - 2007	Planning, construction, commissioning and operational support of a biogas plant for renewable resources in the north of Bremen
2006 - 2007	Scientific evaluation of a pilot plant for the fermentation of organic waste, Expert statement on the evaluation of the process

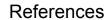




2006	Feasibility study for solar sludge drying
2006	Feasibility study on the construction of a biogas plant for organic waste near Bremen
2006 - 2008	EU-Project: PROTEKT, "Development of practise oriented guidelines for handling and treatment of oil contaminated water in industries and trades in Thailand", Asia Invest Programme
2006 - 2007	e-LUISA, e-learning for the automotive craft on the example of an environmentally friendly garage
2006 - 2007	E-LAN, E-learning for safety and quality in the food industry, fishing industry focus
2006	Development of a short concept to supply a biodiesel plant in northern Germany
2006	Expert report for the construction and operation of a biogas plant for renewable resources from agriculture
2006	Accompanying studies on the modernization of a waste incineration plant
2006	Scientific studies on the biological treatment of CPA wastewater
2006	Assessment of profitability of a biogas plant for renewable resources
2006	Study on the development of a concept for direct discharge of wastewater from the premises of a hazardous waste treatment
2006	European Commission Workshop "Guidelines on minimisation of environmental damage in case of marine pollution"
2006	Eco-balance studies on the expansion options of a MBT
2005 - 2006	Scientific support the commissioning of a secondary fuel reprocessing plant: sorting analyzes to determine the composition of various wastes, expert reports for process optimization
2005 - 2007	Scientific monitoring of the operation of a mechanical-biological stabilization system, implementation of sorting analyzes and experiments for process optimization
2005 - 2006	Advice on the development of the environmental industry in the state of Bremen
2005 - 2006	Testing of the Integrated Product Policy (IPP) - Development of an ecological insulating material based on water glass
2005 - 2006	Feasibility study on the production of energy from waste wood
2005 - 2006	Studies to develop a concept for direct discharges of wastewater
2005 - 2006	Treatment of polluted waste papers and identification of potential recycling routes
2005 - 2006	Various sorting analyzes to determine the composition of different calorific waste
2006	Supplementary report on assessing the economic viability of biogas plants
2005 - 2006	Concretization of IPP strategies for environmental improvement of the example of the development of an ecological insulating material - Ideas Competition for the testing of the Integrated Product Policy (IPP) in the state of Bremen
2005	Expert report on the efficiency of a biogas plant
2005	Project study "Sustainable and environmentally sound water resource and waste management for the development and management of industrial parks in Vietnam"
2005 - 2006	EU-Projekt: SACODI, "Development of guidelines for segregation, collection and safe disposal of hazardous waste", Asia Pro Eco Programme



2005	Feasibility study on the use of renewable energy
2005	Accompanying investigations to the commissioning of a MBT
2005	Ecological assessment of various options for energetic treatment of high caloric waste in Bremen
2005 - 2006	EU-Project: RENEW, "Feasibility study on the production of renewable energy for Phu Quoc/S.R. Vietnam, by biogas plants and biomass combustion plants ", EC-ASEAN Energy Facility Programme
2004 - 2005	Scientific monitoring of composting on a dry fermentation plant. Expert report for the evaluation of the overall process
2004 - 2005	EU-Training course: Workshop on Environmental Damage: "Guidelines on minimisation of environmental damage in case of oil pollution"
2004	Optimization of logistics for data disposal at an automotive company
2004	Study on phosphate availability of conditioned, iron-containing fermentation residues from biogas plants with respect to any agricultural use
2004	\mbox{CO}_2 and energy balance of different methods of energy recovery - method comparison, taking into account climate-relevant emissions
2004	Development of concepts for the use of municipal solid waste landfills after 2005
2004	Research and presentation of the EU funding structures and developing of recommendations for the alignment of an operation of the environmental industry with these structures
2004	Feasibility study for solar sludge drying
2004 - 2006	Scientific monitoring of a pilot plant for dry fermentation of bio-waste
2004 - 2006	eLearning for the automotive trade for sewage and waste optimization
2004 - 2005	EU-Project: BIOREM, "Development of guidelines, for the bioremediation of shorelines contaminated by marine oil spills, for Vietnam, including a workshop and a training course whose results are disseminated and integrated into the curricula", Asia Pro Eco Programme
2004	Studies on the selection and testing of containers for mechanized biol. stabilization
2004	Expert statement for the evaluation of classification criteria for specific types of waste that can be disposed on a landfill in future
2004	Participation in the organization of the conference "control impulses for sustainable regional development"
2004	Studies on the separation of wood from bulky waste and commercial waste as well as determining the impact of a levy of the wood portion of the material flows of a Mechanized biol. Waste Treatment
2003 - 2004	EU-Project: BiWaRE "Development of an integrated 'decision support system' for the application of renewable energy Technologies from organic substrates with applied examples from Vietnam and Thailand - implementation through networked experience of technology and training", ASEAN-EU University Network Programme (AUNP)
2003	Studies on the mechanical treatment of municipal waste for material flow separation with special consideration of the crushing of the waste in a ball mill
2003	Mechanical-biological waste treatment: determination of the dependence of the stabilization result of the aeration rate
2003	Studies to develop a concept for the disposal of industrial waste, including a sorting plant in Saxony



2003	Offer development for an announcement for the mechanical-biological residual waste treatment in a district in Baden-Württemberg
2003	Experts' report on the composition of municipal waste for a rural district in Germany (household waste analysis)
2003	Optimization of a biogas plant
2003	Tests to determine the recovery potential of material flows from a construction waste sorting plant
2003	Customer Satisfaction Analysis for Environmental Economics
2003	Studies on the reduction of the amount of exhaust air from mechanical-biological stabilization systems
2003	Feasibility study on the implementation of the Integrated Product Policy (IPP) in the state of Bremen
2003	Organization and conducting of the conference "street cleaning in the course of time"
2003	Studies on the optimization of a mechanical-biological stabilization system as well as planning and coordination of exercise
2003 - 2004	New sustainable production methods for the manufacture of innovative materials for technical applications and textiles by means of biotechnological modification of natural fibres
2003	Studies on the efficient use of biomass from the maritime sector in biogas plants through enhanced hydrolysis
2002 - 2003	S.U.U.M.A., concept for safe and environmentally sound handling of materials and waste in the operation and maintenance of offshore wind turbines
2002	First preliminary planning for decentralized treatment of wastewater from a residential camp in Luanda, Angola
2002 - 2003	EU-Training course: Bioremediation of Wastes from Marine Pollution, EU-Training course in field of accidental or deliberate marine Pollution
2002 - 2003	EU-Training course: Treatment of Pollution Waste, EU-Training course in field of accidental or deliberate marine Pollution
2002 - 2003	Pro A.G.U., Production integrated health, safety and environmental protection, Handling enhancements in case of Oil/Water mixtures
2002 - 2003	EU-Training course: Response to oil pollution at sea and on the coast, EU-Training course in field of accidental or deliberate marine Pollution
2002	Expert report on optimization of a material flow concept for the operation of a planned MBT
2002	Studies on the development of recovery strategies for incontinence waste
2002	Studies on the composition of packaging waste from the automotive industry
2002 - 2003	Bremen Best Practices: Development and implementation of a regional online portal "Bremen Best Practice" for innovative projects, concepts and products in the context of sustainable development
2002	Semi Technical studies for the stabilization of residual waste from the district Osterholz: specification of partial fractions of the waste for a further biological treatment for inerting and subsequent deposition on a TASI landfill.
2002	Consulting services for the utilization of hospital waste and establishing a biogas plant in the Dublin area, Ireland



2002	Preliminary planning for the construction of a mechanical-biological stabilization of residual waste of a Brandenburg authority
2002	Laboratory, pilot-scale and large-scale experiments on bioremediation of contaminated dredged material with tin organic compounds in the field Bremerhaven - including project coordination
2002	EU-Training course: International Liability and Compensation Regimes, EU-Training course in field of accidental or deliberate marine Pollution
2002	Laboratory and on-site investigations on the optimization of a biogas plant in Mecklenburg-West Pomerania
2002 - 2003	Studies on traffic optimization in the recycling economy by linking supply and waste transports
2001 - 2002	Preliminary investigations of the use of alternative fuels in the brick industry, modification and testing of the task system
2001	Search the nationwide cost structure of commercial waste
2001	Semi Technical studies for the mechanical-biological treatment of reject materials
2001	First preliminary planning for the operation of a wastewater treatment plant
2001	Studies on the establishment of a mechanical-biological stabilization system for residual waste
2001	Studies on the specification of mechanically-biologically treated residual waste
2001	Studies of the pollutant content of soil on an industrial site - risk assessment
2001 - 2002	Studies on the assessment of waste on their suitability as a substrate for fermentation in biogas plants, determination of the spec. Biogas yield of various substrates
2001 - 2002	Half scale tests for bioremediation of TBT-contaminated dredged material
2001 - 2004	EU-Projekt: AWARENET, "Agro food Waste minimisation And Reduction NETwork
2000 - 2001	Semi Technical studies for the production of alternative fuels from high-calorific waste
2000	Studies to increase the biogas production at a biogas plant in Mecklenburg-West Pomerania
2000 - 2001	Consulting services for the preparation of licensing documents for a construction waste sorting plant
2000	Industry Analysis "Cleaner Production" for the state initiative PIUS, Bremen
2000	Laboratory and pilot-scale studies on the bioremediation of TBT-contaminated dredged material
2000	Studies to optimize the water quality and the milk of lime suspension of the waste incineration plant Bremen
2000	Physico-chemical studies on the specification of incontinence waste
2000	Semi Technical studies for the mechanical-biological treatment of incontinence waste
2000	Semi Technical studies for the stabilization of residual waste in a Saxon rural district
2000	Studies on the utilization of seagrass
2000 - 2001	Studies on the optimization of a biogas plant in Mecklenburg-West Pomerania
2000 - 2001	Emissions from a mechanical-biological, stabilization system: further development of air treatment in relation to the 30.BlmSchV, development of measures for the reduction of emissions