

List of Projects

LotusConsulting

summary of most relevant projects since 2001

2019 Sustainable Resources Management - Water, Sanitation, Waste - in the Mindfulness Practice Centre Plum Village, France

Development of a masterplan for sustainable, future-oriented infrastructure systems in the mindfulness practice centre, Plum Village, France:

- data collection and analysis as well as economic evaluation
- design and evaluation of a holistic resources management system for water, sanitation, and organic waste based on source separation.
the study includes the recycling of nutrients and service water, adapted to local context
- community participation, awareness raising and co-creation
- project management and cooperation with authorities, architects, builders and suppliers.

Project languages English and French.

Communauté Bouddhique Zen, Village des Pruniers, Thenac, France

2018 The Future of Waste Management in Cambodia - Seizing the Potential of Digitalization

Cooperation with the German Konrad-Adenauer Foundation (KAS) and the Cambodian NGO COMPED:

- preparation of conference material, publications and keynote speaker
- evaluation of the potential of data to establish a future-oriented waste management systems
- proposal of new business models in waste management, recycling, and resource recovery, as well as communication, capacity development, education and logistics.

The project was funded by the Konrad-Adenauer Foundation. Project languages English and Khmer.

KAS, COMPED, Phnom Penh, Cambodia

2018 Integrated Renewable Energy System for Office Building, Iraq

Design of an integrated photovoltaic plant for the GIZ office building in Dohuk, Iraq:

- data collection, consumer analysis, drafting of different system options
- pre-design of the renewable energy system based on solar panels in combination with public network and other energy sources
- analysis of costs and economic operation and maintenance
- selection of system components and material list for tendering.

Project languages English and German.

Gesellschaft für Internationale Zusammenarbeit (GIZ) mbH, Eschborn, Germany

**2016 - Development of a local regulation on waste management (Waste Statute) for
2017 the City of Battambang, Cambodia**

Cooperation with the German Konrad-Adenauer Foundation (KAS), the City administration and the provincial government of Battambang and the Cambodian NGO COMPED:

Development of a local legal framework for solid waste management in the City of Battambang:

- local project management including cooperation and management of authorities and different departments on district, municipal and village level
- collaborative creation of the draft legislation with all departments at all administrative levels
- networking, communication with / and active involvement of the political decision-makers on national, district & municipal level, in order to facilitate the legislative procedures.

The project was funded by the Konrad-Adenauer Foundation. Project languages English and Khmer.

KAS, Municipality of Battambang, Provincial Government of Battambang, COMPED, Battambang, Cambodia

**2010 - Survey reports, preparation of tender documents, evaluation of planning
2018 documents within the frame of planning and construction of technical components of wastewater systems for the Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH**

Consulting, survey reports, preparation of technical documents for planning and tendering processes, evaluation of offers, evaluation of planning documents and construction drawings in different international projects in the field of waste management, water supply and wastewater treatment, for example:

- i.)** Centre of logistics MOPI in Kabul, police academy in Mazar-e-Sharif, Afghanistan (2010)
- ii.)** Modernization of communal services in Moldova (MLPS). The projects are ongoing in different regions and with different focal points on regional water supply, rural and urban sanitation system and wastewater treatment (2011-now). Support of planning process, change management with different local stakeholder, in particular technical aspects of urban water management and economics, evaluation of feasibility studies and planning documents (drafting, tendering, execution)
- iii.)** Planning supervision and tender preparation of water supply projects in Cahul-Lebedenco and Riscani Rayon (2017-2018)
- iv.)** Evaluation of 13 feasibility studies for water supply and wastewater in different regions of Moldova (2016-2017)

Project languages English, German and Rumanian

Gesellschaft für Internationale Zusammenarbeit (GIZ) mbH, Eschborn, Germany

2014 Study on improving waste management in Phnom Penh, Cambodia

Cooperation with the Cambodian NGO COMPED in a study on "Institutional and legal framework of solid waste management and the development of the current landfill operation and management in Phnom Penh" on behalf of The Asia Foundation. Project language English.

COMPED and TAF, Phnom Penh, Cambodia

**2010 - Research assistant at Bauhaus-Universität Weimar - Research project
2013 „Sustainable sanitation in ger areas in the city of Darkhan, Mongolia“**

Joint research project „Integrated Water Resources Management Central Asia: Modellregion Mongolia (MoMo2)“: Part-project „Sustainable sanitation in Ger areas“: participatory planning, development, implementation and monitoring of an adapted integrated sanitation system, Department of Urban Water Management and Sanitation: www.ipit.eu. Project languages English and German.

Bauhaus-Universität Weimar, Weimar, Germany

**2009 - Management of objections in public participation and regional planning
2013 procedures - extension of the German electrical power supply grid**

Management of objections in public participation and regional planning procedures using different data base systems (Grontmji „PKS Netplan“ and entera „Beteiligung Online - B.O. Plus“) in cooperation with public authorities and consultants in the frame of the planned extension of the German extra high voltage (380kV) supply grid and the construction of overhead-lines.

TenneT (former transpower ltd. and former e.on-Netz ltd.), Bayreuth, Germany

**2009 CDM-project: Study on Recultivation Measures at the Stung Mean Chey
Dumpsite in Phnom Penh, Cambodia**

Study on emission reduction, monitoring, utilization of landfill gas, sealing, securing and utilization of the dumpsite area at Stung Mean Chey including data analysis in Phnom Penh as well as practical gas tests on the dumpsite for the International Environmental Consulting Ltd. (iec Ltd.) and COMPED. The study has been made in the preparatory phase of a CDM project. Project language English.

iec and COMPED, Phnom Penh, Cambodia

2009 Use of mobile digesters in the context of humanitarian crises - feasibility study

Feasibility study about the use of mobile digesters in the context of a humanitarian crisis with special regard to personal experiences in a refugee camp. Examination and evaluation of specific conditions on the basis of personal narratives with the aim to adapt existing technologies at the place of action.

Bauhaus University Weimar, chair of waste management, Germany

2009 Assessment of existing wastewater treatment plants in Mexico City and Puebla City, Mexico

Assessment and documentation of the operational functionality of existing wastewater treatment plants of four first-class hotels in Mexico City, as well as one big slaughterhouse in Puebla City. The rehabilitation of the existing plants at the visited locations focused specifically on the development and implementation of integrated sustainable resource-oriented wastewater systems (tender phase).

Otterwasser Ltd., Lübeck, Germany

2007 - Wastewater systems: University Capacity Building Program (UCBP), Addis Abeba, Ethiopia

Engineer for infrastructure. Coordination of the planning process of wastewater systems in cooperation with local consultants, the client (Ethiopian government), urban and master planning, as well as all involved trades during the planning and construction of 15 universities in different regions of Ethiopia. Project language English.

German Technical Cooperation - International Services (GTZ-IS) Ltd., Eschborn, Germany

2006 - Conversion, extension and new construction of the extra high voltage power supply grid in Baden-Württemberg (Project EnBW U380) - Project Manager Civil Works

Project manager civil works during planning and construction phase of several high voltage switch gears in the frame of a national energy supply infrastructure project (EnBW U380) in Baden-Württemberg: Coordination, management as well as partial independent realization of the HOAI service phase 1-9 (HOAI - official scale of fees for services by architects and engineers).

Siemens AG Erlangen, Power Transmission & Distribution (PTD), Erlangen, Germany

2006 Strategy development and consultancy of the NGO COMPED in Phnom Penh, Cambodia

Strategy development and consultancy of the non-governmental organisation COMPED. Formulation of concepts for the re-orientation of the organisation. Development of further project proposals in cooperation with the partner.

COMPED acts as a local partner in Cambodia for German and international development projects in the field of school education, vocational training, as well as environmental protection with focus on waste management, composting and recycling.

Cambodian Education and Waste Management Organisation, Phnom Penh, Cambodia

2005 Site manager for civil works during the construction phase of high voltage switch gears in Libya

Site manager during the construction phase of gas-isolated high voltage switch gears in Sede Hamed (220kV), Tripoli and the GMMRA-project (380kV) in the libyan sahara.

Siemens AG Erlangen, Power Transmission & Distribution (PTD), Erlangen, Germany and Tripolis, Libya

2004 - Preparation of BoQ`s and tendering documents for national and international energy supply projects: building and civil engineering

Drafting, detailed bill of quantities and preparation of tender documents for large scale energy supply projects: building and civil engineering for gas-isolated (GIS) and air-isolated (AIS) switch gears, including transformer buildings, control rooms, cable channels and all additional and special buildings.

Amongst others for the following sites:

- re-construction and new building of 33 air-isolated switch gears in Armenia, 110 kV and 220 kV plants (AIS). Project language English.
- Oued Athmania and 4 further sites in Algeria, new and re-building of 220 kV plants (AIS and GIS). Project language French.
- Abu Dabi, Jazirat island, new building of 380 kV GIS plants, 4 transformer bases, 20 circuit sections, difficult building ground. Project language English.
- Gilgel Gibe and 2 further sites in Ethiopia, new building of 220 kV plants in difficult territory (AIS). Project language English.

Siemens AG Erlangen, Power Transmission & Distribution (PTD), Erlangen, Germany

2004 Emergency assistance during the Darfur crisis with Doctors without Borders in Chad / Sudan

Mission as logistician and manager during the humanitarian emergency assistance in the refugee crisis Chad / Darfur at the border to Sudan with Doctors without Borders (Médecins Sans Frontières - MSF).

Responsible for all logistical tasks within the project, in particular security and communication, project supply, logistical storage, management of vehicles, personnel management and project finances. Planning and construction of the first health centre in the Farchana refugee camp. Project languages English and French.

Doctors without Borders - Section Netherlands, Amsterdam, Netherlands and Chad

2002 Quality supervision and site manager during the construction of a high voltage switch gear in the Sahara desert, Algeria

Civil engineering tasks in Germany and Algeria: Quality supervision and site management of building and civil works on a gas-isolated high voltage switch gear under extreme conditions in the Algerian part of the Sahara desert. Project language French.

Siemens AG Erlangen, Power Transmission & Distribution (PTD), Erlangen and Algiers, Germany and Algeria

2001 Research work and construction of a pilot composting plant in Phnom Penh, Cambodia

Planning and construction of a pilot composting plant on the dumpsite of Stung Mean Chey in Phnom Penh, Cambodia:

Examination of the feasibility of the aerobic utilization of organic waste (composting) with special regard to the socio-economic, cultural and climate conditions in Cambodia. Production of quality compost for the Cambodian fertilizer market gained from local organic waste of vegetable markets. Project language English.

Bauhaus-Universität Weimar, Thuringian Ministry of Agriculture & Environmental Protection, Erfurt, Germany and Phnom Penh, Cambodia