

List of Projects

LotusConsulting • Dr. J. Stäudel

summary of most relevant projects since 2001

2019 - Sustainable Resources Management - Water, Sanitation, Waste - 2020 in the Mindfulness Practice Centre Plum Village

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 for 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 - Supervision, evaluation, survey reports, preparation of planning and tender
2018 documents within the frame of planning and construction of infrastructure systems for Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ)**

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

- i) Centre of logistics MOPI in Kabul and police academy in Mazar-e-Sharif, Afghanistan (2010, 2012)
- ii) Modernization of communal services (MLPS): Several projects in regional water supply, rural and urban sanitation systems, and wastewater treatment in different regions of Moldova (2011-2018):
 - management and support of local planning processes with focus on technical aspects and economics
 - change management local stakeholders
 - evaluation of feasibility studies and planning documents (drafting, tendering, execution)
- iii) Supervision and management of project design, document and tender preparation of several 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 project „Integrated Water Resources Management (IWRM) Central Asia: Modellregion Mongolia (MoMo2)“

Joint cooperation and research project: Multilateral, inter-disciplinary and trans-disciplinary project with main focus on

- development of an adapted, state-of-the-art IWRM for Mongolia
- technology evaluation and transfer of IWRM-based methods and approaches
- enhanced sustainable protection and transboundary use of water resources

in the river catchment area of the Kharaa river and beyond (rivers Orkhon and Selenge as contributors to Lake Baikal).

The project had significant influence on the environmental legislation of Mongolia from national to sub-district levels (Khoroo and Bag). Several IWRM methods have been developed, tested and partially implemented in national and regional strategies.

More than 30 cooperation partners, research institutes, universities, public and private companies, NGOs and further stakeholders in Germany and Mongolia were included in the project: www.iwrn-momo.de. Project languages English, Mongolian and German.

Bauhaus-Universität Weimar, Weimar, Germany

2010 - Research assistant at Bauhaus-Universität Weimar - Research project
2016 „Sustainable sanitation in ger areas in the city of Darkhan, Mongolia“

Within the joint research project MoMo2: Project management „Sustainable sanitation in Ger areas“: Participatory planning, development, implementation and monitoring of an adapted integrated sanitation system: www.ipit.eu. Project languages English, Mongolian and German.

Department of Urban Water Management and Sanitation, 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-Universität 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 and supervision of the planning process of wastewater systems and other infrastructure systems during the planning and construction of 15 universities in different regions of Ethiopia.

The projects have been executed in cooperation with local consultants, the client (Ethiopian government), urban and master planning departments, tendering and procurement, as well as all related civil works.

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 independent implementation 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 - Project management civil engineering and procurement : Preparation of BoQ`s and tendering documents for national and international energy supply projects

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