

CURRICULUM VITAE

Proposed role in the project:

1. **Family name:** **STOISITS**
2. **First names:** **Andreas**
3. **Date of birth:** **10 April 1963**
4. **Nationality:** **Austrian**
5. **Civil status:** **single**
6. **Education:**

| Institution (Date from - Date to) | Degree(s) or Diploma(s) obtained: |
|---|---|
| International Institute for Infrastructural, Hydraulic and Environmental Engineering Delft (UNESCO-IHE) The Netherlands (1993 – 1994) | Post graduate Diploma – International Sanitary Engineering Course |
| University of Natural Resources and Applied Life Sciences Vienna (Universität für Bodenkultur Wien), Austria (1983 – 1992) | M.Sc. in Civil Engineering and Water Management |
| Federal Technical High School Graz, Department for Civil Engineering, Austria (1977 – 1982) | 1st Engineering Degree in Civil Engineering |

7. **Language skills:** mark 1 (excellent) to 5 (basic) for competence:

| Language | Reading | Speaking | Writing |
|------------------------------|---------|----------|---------|
| German | 1 | 1 | 1 |
| English | 1 | 1 | 1 |
| Croatian / Bosnian / Serbian | 2 | 2 | 3 |
| Russian | 3 | 3 | 4 |

8. **Membership of professional bodies:**
 International Water Association (IWA),
 Fachverband Ingenieurbueros (Austrian Association of Consulting Engineers)
9. **Other skills:** Microsoft Applications (Access, PowerPoint, Project, Excel, Word, DOS), Visio Standard; MapInfo, AutoCad, Aqualibre
10. **Present position:** Water & Sanitation Engineer - Freelance Consultant (since November 2003),
www.stoitsits.com
11. **Years within the firm:** 11
12. **Key qualifications:**
 Since 1982 working in the Infrastructure Sector and from 1996 continuously working abroad with a wide-ranging experience in all aspects of water supply, sanitation and other infrastructure projects, e.g.
 - Team leading, project & design management, supervision of water supply, sanitation and energy projects
 - Preparation of investment programmes and feasibility studies in the water and sanitation sector
 - Institutional strengthening and training programmes; water and sewerage utility analysis
 - Water supply network rehabilitation with special focus on non-revenue water and operational performance monitoring
 - Operations and maintenance of water, wastewater and sanitary landfill systems
 - Quality management, planning and design according EC & FIDIC requirements of infrastructure projects
 - Experience with EC Structural & Cohesion Fund & PRAG, EBRD, EIB, KfW, World Bank & WSP (co)-funded projects & missions

Experience especially related to problems in the Balkan region, Central and South Asia, gathered most of the overseas experience in the countries as diverse as Bosnia & Herzegovina, Croatia, Montenegro, Serbia, Kosovo, Bulgaria, Romania, Turkey; Former Soviet Union countries, such as Latvia, Moldova, Georgia, Kazakhstan, Uzbekistan and Tajikistan; South Asia in India and Sri Lanka and Africa in Mozambique.

13. **Specific country experience (listed by latest in-country work):**

| Country | Date from - Date to |
|----------------------|--|
| Serbia | 09/2001, 01 – 08/2011, 12/2011 – 05/2012, 09/2012 – 04/2013, 07/2013 – on-going |
| Bulgaria | 08/2008 – 09/2012 |
| Montenegro | 06/2009 – 11/2010 |
| Tajikistan | 10/1999, 05/2009, 05/2011, 11/2010 |
| Uzbekistan | 07 - 08/1999, 03/2002,12/2008, 02/2009 |
| Romania | 01/2008-06/2008, 01/2009-03/2009 |
| Georgia | 05/2008, 08/2008, 10/2008 |
| Croatia | 08 – 09/1999, 04 – 10/2008 |
| Latvia | 05/2005 – 03/2007 |
| Turkey | 09/2004 – 03/2005, 02/2007, 05/2007, 11/2007, |
| Mozambique | 04/2007 |
| Bosnia & Herzegovina | 03/1996 – 08/1998, 11 – 12/1999, 07 – 09/2002, 11/2003 - 09/2004, 12/2010, 02/2011 |
| Kosovo | 09/1998 – 02/1999, 10 – 12/2002, 10/2003 |
| Sri Lanka | 02/2003 – 06/2003 |
| India | 03/2003, 05/2003, 09/2003 |
| Moldova | 06 – 07/2002 |
| Kazakhstan | 05 – 08/2001, 11/2001, 02/2002 |
| Lebanon | 01/2001 |
| Russia | 05/2000 |
| United Kingdom | 06/1999 – 05/2000 |
| Austria | 1982 – 1995 |

14. Professional experience record:

| Date from – Date to | Location | Company | Position | Description |
|---------------------|--|---|-------------------------------------|---|
| 07/2013 – 09/2014 | Kruševac, Užice & Vranje; Serbia | H.P: Gauff Ingenieure GmbH & Co KG - JBG; Mr Joachim Glasenapp, jglasenapp@gauff.com | Chief Design Engineer | Client: Ministry of Economics and Regional Development (MERD) of the Republic of Serbia, co- financed by KfW & EC Project: Water and Sewerage Programme in Medium-Sized Municipalities in Serbia - Programme III - Phase 2 - Wastewater Description: The 'Programme III - Phase 2 - Wastewater' involves the towns Kruševac, Užice and Vranje and general scope of this phase is design and construction of works . The projects in all three towns include the preparation of detailed designs of networks (45km) and collectors (35km) for transporting the wastewater to the WWTPs in each town, to be also constructed within the programme. Furthermore the rehabilitation of existing sewers and collectors (in total 13km) is included in the detailed design works , also to be tendered as FIDIC Red Book contracts . The WWTP in Kruševac will have a design capacity of 90,000 P.E. with an activated sludge process, anaerobic sludge digestion and solar sludge drying facility, the WWTP in Užice a of capacity 65,000 P.E. with a conventional activated sludge process and anaerobic sludge digestion, and the WWTP in Vranje a size of 70,000 P.E. proposed with activated sludge plant and anaerobic sludge digestion facility. For all three WWTPs individual conceptual designs have been prepared, which serve as part of the FIDIC Yellow Book Tender for the construction works of the WWTPs. Responsible within Phase 2 for the detailed identification of final investment measures , the entire detailed design process and preparation of tender documents (FIDIC Red Book) for the networks, collectors, pumping stations and rehabilitation works as well as the conceptual designs for the WWTPs . The investment budget in Programme III – Phase 2 for the three Municipalities is about 55 Mio € and will be financed by the ' KfW and IPA-funds ' and executed by the Ministry of Economics and Regional Development (MERD) of the Republic of Serbia. |
| 09/2012 – 04/2013 | Aleksinac, Jagodina, Leskovac, Piro, Trstenik & Vranje; Serbia | SETEC Engineering GmbH & Co KG; Mr Gerhard Zimmerl, gzimmerl@setec.at | Chief Design Engineer | Client: Ministry of Economics and Regional Development (MERD) of the Republic of Serbia, financed by KfW Project: Water and Sewerage Programme in Medium-Sized Municipalities in Serbia - Programme II - Phase 2 Description: The ' Water and Sewerage Programme in Medium-Sized Municipalities in Serbia - Programme II ' is directed towards medium-sized municipalities (20,000 – 200,000 inhabitants) which shall be directly supported in their provision of communal water supply and wastewater disposal to their inhabitants. General objectives of the Programme II are to (i) to improve and modernize the technical operation of the WS and WW installations and (ii) to increase the operational efficiency and the financial sustainability of the Public Utilities in the above mentioned municipalities. Programme II is divided in two phases: Phase 1: Feasibility Studies , preparatory engineering works and institutional management support as preparation for Phase 2 was finalised in autumn 2011. Phase 2: Design and Implementation of priority investments and further institutional management support. The Phase 2 includes a 15 months long design period, followed by the 21 months implementation period (construction period). Responsible within Phase 2 for the entire design process and tender documents (FIDIC Red & Yellow Book) preparation for the raw water collection & treatment facilities, drinking water distribution network rehabilitation & extensions as well as the wastewater pumping stations, management of international & national experts and sub-contractors involved in the design and tender preparation. The investment budget in Programme II - Phase 2 for the six Municipalities is about 25 Mio € . |
| 08/2012 – 09/2012 | Dobrich, Bulgaria | European Investment Bank; Mr Hugh Goldsmith; goldsmith@eib.org | Water Supply / NRW Reduction Expert | Client: European Investment Bank (EIB) / Bulgarian Ministry of Environment & Water (MoEW) Project: Integrated Water Project for Dobrich – Phase I; EuropeAid/124488/D/SV/BG to be co-financed by EIB Description: Short Expert Assignment to support the EIB Appraisal of the Integrated Water Project for Dobrich – Phase I The Water Project Dobrich – Phase I has to be completed by end 2015 to avoid losing EC grant funding and involve 4 components , a) Water supply – network investments to reduce physical leakage in transmission and distribution; b) Sewerage – network investments to reduce infiltration and improve coverage and performance, c) Wastewater treatment – a major upgrade to the existing WWTP and d) Technical Assistance – to support the PIU and delivery of the project. About 1/3 of the entire investment budget of 60 Mio EUR was assigned to component of water supply rehabilitation and upgrade . General assignment objectives were to perform an assessment of existing water supply network operations and performance , including flow and pressure measurement; pipe bursts and repair records; network modelling, non-revenue water estimates, energy efficiency, operating cost; and the preparation of a rapid technical evaluation of the soundness of the leakage reduction programme and related works tender documents in order to identify any significant risks , and make pragmatic proposals to improve expected results within the various constraints (timing, EC and National procurement rules, ERDF grant eligibility rules). |

| Date from – Date to | Location | Company | Position | Description |
|---------------------|---|--|--|--|
| 12/2011 – 05/2012 | Kruševac, Užice & Vranje, Serbia | SETEC Engineering GmbH & Co KG; Mr Gerhard Zimmerl, gzimmerl@setec.at | Wastewater Expert | Client: Ministry of Economics and Regional Development (MERD) of the Republic of Serbia, co- financed by KfW & EC Project: Water and Sewerage Programme in Medium-Sized Municipalities in Serbia - Programme III – Phase 1 - Wastewater Description: The ' Programme III – Phase 1 - Wastewater ' is directed towards medium-sized municipalities (50,000 – 200,000 inhabitants) to support the provision of communal wastewater services. The overall objectives of the Programme III in Medium-Sized Municipalities in Serbia are to contribute to (1) supporting EU-convergence of Serbia, (2) protecting the water resources and (3) improving the living conditions of the population in selected municipalities. The programme objectives are to secure hygienically safe disposal and treatment of waste water at cost covering and socially acceptable tariffs in the municipalities Kruševac, Užice and Vranje . The Programme III consists of Phase 1 which includes the support of utilities to fulfil the eligibility criteria for Kreditanstalt für Wiederaufbau (KfW) and EC-IPA funding and Phase 2 the actual construction of collection and treatment facilities . Responsible within Phase 1 for the preparation of Priority Investment Plans, advisory on technical issues for the later implementation stage, which will be Phase 2 (detailed design and construction phase) as well as advisory to MERD and participating Municipalities. The investment budget and design budget of Programme III – Phase 2 for the three Municipalities is about 60 Mio € and will be financed by the ' KfW and IPA-funds ' and executed by the Ministry of Economics and Regional Development (MERD) of the Republic of Serbia. |
| 02/2012 – 04/2012 | Subotica, Serbia | HYDRO ING-ENIEURE GmbH, Mr. Josef Bramberger, j.bramberger@hydro-ing.at | Wastewater Expert | Client: European Bank for Reconstruction and Development (EBRD) Project: Subotica Water Upgrade Project - Feasibility Study Description: After financing the Wastewater Treatment Plant for the Town of Subotica the EBRD is considering EUR 11 Mio loan for the Municipality of Subotica for upgrade of existing and extension of the water and wastewater networks . The main components of FS-work are the Baseline Study, Technical Assessment & Definition of Investment Project for the infrastructure in the entire municipal area and the Financial Analyses of public utility company. Responsible for the preparation of above FS-components with regard to the wastewater collection infrastructure in the Subotica Municipality. |
| 08-09/2011 | Abu Dhabi, United Arab Emirates | ILF Beratende Ingenieure ZT; Mr. Thomas Reinheimer, thomas.reinheimer@ilf.com | Water Supply Expert | Client: Abu Dhabi Distribution Company (ADDC), financed by ADDC Project: Services for Supply of Network Modelling Software including Hydraulic Models of entire ADDC Water Distribution Network' Description: Preparation of Technical and Financial Proposal for the 'Consultancy Services for the Supply and Installation for Network Modelling Software including Hydraulic Models of entire Abu Dhabi Distribution Company (ADDC) Water Distribution Network' . The consultancy assignment will include the building of hydraulic model (7000 km) including all required field works for demand, pressure and flow monitoring for the calibration of the model. |
| 01/2011 – 11/2011 | Aleksinac, Jagodina, Leskovac, Pirot, Trstenik & Vranje; Serbia | SETEC Engineering GmbH & Co KG; Mr Gerhard Zimmerl, gzimmerl@setec.at | Water & Sanitation Expert and NRW Specialist | Client: Ministry of Economics and Regional Development (MERD) of the Republic of Serbia, financed by KfW Project: Water and Sewerage Programme in Medium-Sized Municipalities in Serbia - Programme II - Phase 1 Description: The ' Water and Sewerage Programme in Medium-Sized Municipalities in Serbia - Programme II ' is directed towards medium-sized municipalities (20,000 – 200,000 inhabitants) which shall be directly supported in their provision of communal water supply and wastewater to their inhabitants. The general objectives of the Programme II are to (i) to improve and modernize the technical operation of the WS and WW installations and (ii) to increase the operational efficiency and the financial sustainability of the Public Utilities in the above mentioned municipalities. The Programme is divided in two phases: Phase 1 : Preparatory engineering works and institutional management support as preparation for Phase 2 and Phase 2 : Implementation of priority investments and further institutional management support. Responsible within Phase 1 for the Preparation of Feasibility Studies for Pirot, Trstenik and Vranje and to support the tasks related to NRW and wastewater issues in the projects towns. Investment budget in Phase 2 for the six Municipalities is about 25 Mio € . |

| Date from – Date to | Location | Company | Position | Description |
|---------------------------------------|---|--|--|---|
| 12/2010 – 05/2011 | Ilidza, New Sarajevo, Neum, Stolac, Trnovo; Bosnia and Herzegovina, | Voding 92 d.o.o.; Mr Nebojsa Budovic, nebojsa.budovic@gmail.com | Water and Sanitation Expert (short-term input) | Client: UNDP Bosnia and Herzegovina Project: Provision of Water Studies for Partner Municipalities MDG-F DEG BiH Description: Preparation of studies for Eastern Ilidza and Eastern New Sarajevo, Neum, Stolac and Trnovo within the Millennium Development Goals Fund (MDG-F) Democratic Economic Governance Programme in Bosnia and Herzegovina . The study objectives were a) Assessment of current situation and analysis of development projects , studies, project solutions and harmonization of development of water supply systems with development plans and projects, b) Preparation of Water Supply and Sanitation Master Plan for partner municipality, c) Prioritizing plan of investment measures for the period of 10 years and d) Feasibility study for the identified priority investment measures. Collaboration on preparation of the technical part of above studies, particularly on sections related to water resource management, non-revenue water and sanitation . The studies (10 municipalities in total) were financed from the Millennium Development Goals Funds for Bosnia and Herzegovina. |
| 06/2009 – 11/2010 | Herceg Novi, Kotor, Tivat and Bar; Montenegro | Dahlem Consulting Engineers; Dr. Uwe Moshage, u.moshage@dahlem-consult.com | Team Leader and Resident Engineer | Client: Vodacom, financed by KfW Project: Improvement of Wastewater Disposal in Coastal Areas for the Program 'Water Supply & Wastewater Adriatic Coast III' Description: The general objectives of the "Consulting Services for Support to Vodacom in the Implementation of Phase III - Improvement of Wastewater Disposal in Coastal Tourist Areas - Stage 2" were the preparation of Detailed Designs & Tender Documents for the construction of water & wastewater systems Herceg Novi, Kotor, Tivat and Bar as well as the Conceptual Designs & Tender Documents for the wastewater treatment plants in Herceg Novi & Bar. The tender documents for the main collectors and networks were prepared as FIDIC Red Book Contracts, and for the WWTPs as FIDIC Yellow Book Contracts, total investment of about 70 Mio Euro . The consulting services for the Stage 2 Project comprises about 180 man-months of international and local experts within the project period of twelve months. Stage 3 (Tendering and Construction) of the Consulting Services of Phase III started in Spring 2010 with the Pre-qualification of Companies for the individual Works Contracts and the Tendering for Kotor in Autumn 2010. Responsible as Team leader for the project management, preparation of regular reports for and liaison with Vodacom, review of designs and all final deliverables and tendering process. |
| 05/2009 – 11/2010 (short-term inputs) | Khujand; Tajikistan | Corporate Solutions (CS) Ltd.; Mr. Ebby Adhami, ebby.adhami@cscl.biz | Operations Expert | Client: City of Khujand, co-financed by EBRD Project: Khujand Water Supply Improvement Project Phase II – (FOPIP II) Description: The EBRD extended a loan to the Republic of Tajikistan to co-finance a programme to improve the water supply services in the City of Khujand. The main objectives of the project were to implement a Financial and Operational Performance Improvement Programme (FOPIP I) which was completed in early 2008. After evaluation of FOPIP I the Bank decided to continue with the support to the City with the ' Khujand Water Supply Improvement Project Phase II – (FOPIP II) '. The project consisted of 3 components: (I) Corporate Development Programme for Khujand Water Company (KWC), (II) Stakeholder Participation Programme and (III) City Support Programme. Component (I) & (III) include the support of KWC in the implementation of the FOPIP with focus on Financial Reporting, Capital Planning and Training regarding Non-Revenue Water Reduction & Energy Efficiency and assistance in preparation of a rehabilitation proposal for the Wastewater TP. Contracted as Consultant by CS Ltd. for operational and technical issues of the Financial and Operational Performance Improvement Programme of the Khujand Phase II Project . |
| 12/2008 – 04/2009 | Syrdarya and Bukhara Districts, Uzbekistan | World Bank – IBRD; Mr. Takao Ikegami, tikegami@worldbank.org | Water Supply and Sanitation Expert | Client: World Bank Project: Assessment of water supply situation in districts Mekhnatoabad, Akaltyn, Sardoba, Khavast & Bayaut in Syrdarya Province Description: Evaluation of Beneficiary's Rehabilitation Proposal; Preparation of priority investments & development of medium-term strategy for proposed loan to the Uzbek Government of approximately 88 Mio USD ; Technical analyses of water supply infrastructure in Alat and Karakul districts in the Bukhara Province ; Evaluation of Beneficiary's Rehabilitation and Extension Proposal; Preparation of a medium-term investment strategy for the loan discussions between the World Bank and the Government of Uzbekistan; . Assistance of the Beneficiary in the phase of project identification and development of RfP and ToR . |

| Date from – Date to | Location | Company | Position | Description |
|---------------------------------------|---|--|--|--|
| 01/2008 – 06/2009 | Alba County, Jiu Valley, Ramnicu Valcea and Satu Mare County, Romania | ILF Beratende Ingenieure ZT; Mr. Thomas Reinheimer, thomas.reinheimer@ilf.com | Water Supply and Sanitation Expert, NRW Reduction & Operations | Client: Ministry of Environment and Sustainable Development of Republik of Romania, financed by EU - Structural and Cohesion Fund Project: Technical Assistance for Project Preparation in the Wastewater and Drinking Water Sector in Romania Description: The technical assistance project requires the preparation of minimum 5 project applications for investments in the field of municipal water and wastewater ready to be approved for the European Commission – Structural and Cohesion Fund financing. The ISPA applications refer to the counties of Satu Mare, Alba, Timiș, Hunedoara (Valea Jiului) and Vâlcea and include the following supporting documents - Master Plans, Feasibility Studies, Financial and Cost-Benefit Analyses, Institutional Analyses and Environmental Impact Assessments. Contracted as Consultant by ILF for the Preparation of the Master Plans and Feasibility Study input of the Drinking Water components in Alba, Satu Mare and Valcea Counties and Valea Jiului in the Hunedoara County and Waste Water Treatment Plant feasibility study for Satu Mare. |
| 05/2008 – 10/2008 (short-term inputs) | Kutaisi & Poti; Georgia | Emerging Markets Group (EMG) Ltd.; Ms. Vera Ogorodnikova, vogorodnikova@emergingmarketsgroup.com | Water Supply Management Expert | Client: Municipal Development Fund of Georgia, financed by EBRD Project: FOPIP for Kutaisi and Poti Municipalities. Description: EMG provided technical assistance services in support of the EBRD investment projects financing key improvements of the water supply in the two Georgian towns of Kutaisi and Poti. The objective is to renew the water and wastewater infrastructure, and restore a reliable water supply to the population. Two main goals of the EMG's assignment are 1) to assist the municipal water companies in the pursuit of financial and operational recovery, the achievement of long-term sustainability and commercial viability; and 2) to engage the municipal governments in Kutaisi and Poti, as the owner of these cities' water utilities, to create appropriate management and operational environment such that the utilities can function as quasi-commercial entities. Contracted as Consultant by EMG within the ' Financial and Operational Performance Improvement Programme for Kutaisi and Poti ' for training of the utility personnel with regard to Non-Revenue Water Reduction and Water Resource Management. |
| 03-10/2008 | Otočac, Osijek, Benkovac, Pakrac, Delnice, Slatina and Lepoglava; Croatia | EPRD Ltd. – GIE Ltd. Framework Contractor; Ms Ana Maria Mihaescu, ana-mihaescu@gie2.com | Water Supply & Sanitation Expert | Client: Delegation of the European Commission to the Republic of Croatia Project: Monitoring of infrastructure investments in towns of Otočac, Osijek, Benkovac, Pakrac, Delnice, Slatina and Lepoglava Description: The global project objective was to assist the EC Delegation in Croatia in monitoring of grant contracts, especially with regard to the technical aspect of implementation of work contracts, to ensure quality in project in the above mentioned towns and recommendations for future implementation monitoring process. The specific objectives were to verify regularity and quality of procurements performed by grant beneficiaries for works and equipment also to identify best monitoring practices to be applied to similar schemes within IPA Regional Competitiveness Programme 2007-09. Contracted as Consultant by GIE Ltd. as technical monitor for the water supply & sanitation components and construction works of the grant programme of the above mentioned beneficiary towns. |
| 02/2007, 05/2007, 11/2007 | Eskisehir; Turkey | SETEC Engineering GmbH & Co KG; Mr Gerhard Zimmerl, gzimmerl@setec.at | Trainings Expert - Non-Revenue Water Reduction & Operations | Client: European Investment Bank and Nordic Investment Bank Project: Consultancy Services for Non-Revenue Water Reduction and Operational Capacity Strengthening' Project Eskisehir Description: Training of the Water & Sewerage Company of Eskisehir in various aspects efficiency improvement and particularly in NRW-Reduction activities within the ' Consultancy Services for Non-Revenue Water Reduction and Operational Capacity Strengthening' project - Half-yearly trainings missions. The main tasks of the project are the design and implementation of (i) sub-zoning, (ii) set-up of flow and pressure monitoring facilities (DMA-approach) and (iii) selective pipe replacement programme in the existing water supply network. |
| 04/2007 | Maputo, Mozambique | CDM Engineering & Consulting; Mr Carlos Linares, linaresca@cdm.com | Non-Revenue Water Reduction / Water Supply Expert | Client: Millennium Challenge Corporation, funded by Millennium Challenge Account-Mozambique (MCA-MZ). Project: Northern part of Mozambique - Millennium Challenge Corporation's (MCC's) Due Diligence Description: The mission objectives were to provide technical input to Millennium Challenge Corporation's (MCC's) Due Diligence on the technical, environmental, economic and institutional aspects of water and road sector investments proposed by the Mozambique Government. Responsible within the interdisciplinary team of engineering and financial/economic experts for the evaluation of the proposed NRW-reduction strategy for about 10 project towns in the Northern part of Mozambique. Programme evaluation with regard to Non-Revenue Water was based on IWA's Key Operational Performance Indicators System. |

| Date from – Date to | Location | Company | Position | Description |
|---------------------|---|--|---|---|
| 05/2005 – 03/2007 | Riga, Latvia | Hyder Consulting Ltd.; Mr Andrew S. Murray, Andrew.Murray@hyderconsulting.com | Water Supply and Sanitation Expert | Client: Ministry of Environment of the Republic of Latvia, financed from the European Commission – Cohesion Fund Project: Development of Water Services for Riga – Phase III Description: The Consortium Hyder Consulting / Barry International / LaKalme / Firma L4 was awarded by the Ministry of Environment of the Republic of Latvia with the 'Development of Water Services for Riga – Phase III' Project for an investments amount of 90 Mio € . The main project objectives were (i) Preparation of Hydraulic Network Model; (ii) Preparation of Tender Dossier for Work Contracts on Valves; DMA-Meters and Mains Replacement Programme in the existing water supply system and extension of 50 km water supply in suburb areas, (iii) Preparation of Technical Dossier for Supervision of above Work Contracts; (iv) Supervision of CCTV inspection of Sewer system and (v) Preparation of Tender Dossier for Work Contracts on Sewer Rehabilitation in Hanzas, Kalnciena and Centre. Responsible for the strategic planning and design supervision of components concerning related to supply & sewers (i, ii, iii & v). |
| 07/2006 | Dushanbe, Tajikistan | Liemberger & Partners; Mr Roland Liemberger, roland@liemberger.cc | Technical Auditor of Programme Implementation | Client: Republic of Tajikistan, Project financed from the World Bank loan Project: Dushanbe Water Supply Project – Management Audit Description: Like for the First Year Management Audit, Liemberger & Partners were contracted for the Second and Third Year Audit of Performance of the German Operator (MVV and Hydroplan) of the Dushanbe Water Supply Project . The audit team consisted of a group of Austrian and Russian technical and financial specialists. The particular assignment in the audit covered the technical evaluation of the Operator's Performance for the Second and Third Year Management Letter and Final Incentive Compensation. Operational Performance Audit was based IWA's Manual of Best Practice - 'Performance in Indicators for Water Supply Services'. |
| 02-03/2005 | Dushanbe, Tajikistan | Liemberger & Partners; Mr Roland Liemberger, roland@liemberger.cc | Technical Auditor of Programme Implementation | Client: Republic of Tajikistan, Project financed from the World Bank loan Project: Dushanbe Water Supply Project – Management Audit Description: End of 2004 Liemberger & Partners were awarded with the Audit of Performance of the German Operator (MVV and Hydroplan) of the Dushanbe Water Supply Project . The audit team consisted of a group of Austrian, Finnish and Russian technical and financial specialists. The particular assignment in the audit covered the technical evaluation of the Operator's Performance for the Base Year Data Report and First Year Management Letter . Operational Performance Audit was based IWA's Manual of Best Practice - 'Performance in Indicators for Water Supply Services'. |
| 09/2004 – 04/2005 | Eskisehir, Turkey | SETEC Engineering GmbH & Co KG; Mr Gerhard Zimmerl, gzimmerl@setec.at , | Project Manager and NRW Specialist | Client: Eskisehir Municipality, financed by the European Investment Bank and the Nordic Investment Bank. Project: Eskisehir Municipal Urban Development Project, Component 3 - Water Services Description: The general objectives of the 'Eskisehir Municipal Urban Development Project, Component 3 - Water Services' were (i) the analysis of the Utility (ESKI - Eskisehir Su ve Kanalizasyon Idaresi); (ii) Development of Non-Revenue Water (NRW) reduction / leakage management strategy ; (iii) Establishment and implementation of a hydraulic model for the distribution network; and (iv) Concept development for a Management Information System regarding Operational Performance Indicators and Benchmarking for the Utility. |
| 07/2004 | Klagenfurt, Austria | SETEC Engineering GmbH; Mr Gerhard Zimmerl, gzimmerl@setec.at | Water Supply Specialist | Client: EBRD Project: Water Supply Rehabilitation and Institutional Support Project Novi Sad, Nis & Kragujevac Description: Preparation of Technical & Financial Proposal for a Water Supply Rehabilitation and Institutional Support Project in Novi Sad, Nis & Kragujevac in Serbia. |
| 11/2003 – 09/2004 | Various Towns, Bosnia and Herzegovina | World Bank – IBRD, Ms Seema Manghee; Smanghee@worldbank.org | Water Utility Analyst | Client: World Bank – IBRD Project: Urban Infrastructure and Service Delivery Project Description: Analyses of water utilities in Cazin, Gracanica, Orasje, Lukavac, Posusje, Stolac, Travnik & Vitez ; Identification of priority investments & development of medium terms strategies with regard to operations & leakage management and system extensions for the proposed 'Urban Infrastructure and Service Delivery Project' by the World Bank, investment of 15 Mio USD . |

| Date from – Date to | Location | Company | Position | Description |
|---------------------|--|---|--|--|
| 11/2003 onwards | Austria | Andreas Stoitsits, Tech. Buero für Kulturtechnik & Wasserwirtschaft | Consultant www.stoitsits.com | Client: Various - see above Project: Various - see above Description: Water utility analysis, consulting services for international funding agencies and companies in the water & sanitation sector; Preparation of tender and proposal documents; Supervision and monitoring of project implementation; Project management, Water supply and Wastewater expertise. |
| 08-10/2003 | New Delhi / Delhi; India | Bristol Water Services Austria GmbH (BWS) – Permanent Employment; | NRW Expert | Client: World Bank, Water and Sanitation Program (WSP) Project: Strategy for conversion of intermittent to continuous water supply in districts Rohini, Trilokpuri, Green Park & Dakshinpuri Description: Development of a strategy plan for conversion of intermittent water supply of few hours daily to continuous supply in districts Rohini, Trilokpuri, Green Park & Dakshinpuri. Strategy and cost estimation for demonstration zones, solely responsible for development of an IWA Water balance and strategy for conversion to continuous supply by considering institutional, technical & NRW aspects. |
| 05/2003 | Guwahati; India | Mr Roland Liemberger, roland.liemberger@bws-austria.com | Project Manager & NRW Expert | Client: World Bank, Water and Sanitation Program (WSP) - South Asia. Project: Strategy for conversion of current intermittent supply to continuous water supply (24/7) for Guwahati urban areas Description: Technical feasibility, strategy and cost estimation for a demonstration zone, solely responsible for development of an IWA Water balance and strategy for conversion to continuous supply by taking into account institutional, technical and Service of Level (SoL) aspects. |
| 05/2003 | Gulburga, Belgaum, Hubli-Dharward, India | | NRW Expert | Client: Government of Karnataka - World Bank Water & Sanitation Sector Preparation Funding Line. Project: Karnataka Urban Water & Sanitation Sector Improvement Project Description: Identification and strategy for demonstration zones for conversion of current intermittent supply to continuous water supply (24/7) in the cities Gulburga, Belgaum, Hubli-Dharward in the State of Karnataka. Responsible for the project preparation and inception mission. |
| 02-06/2003 | Kalutara to Galle Coastal Strip; Sri Lanka | | NRW Expert | Client: Ministry of Housing & Plantation Infrastructure of the Republic of Sri Lanka. Project: Baseline Review of current Levels of Service and Water Distribution Network Performance Description: Review and Assessment within the framework of the National Policy on Private Sector Participation: Customisation of BABE models taking into account network & house connections; Preparation of a Water Balance according to IWA and Development of 15 year forecasts of different scenarios based on identified PSP models. |
| 07/2002 – 10/2003 | Pristina, Kosovo | | Project Director, Institutional and Operational Performance/NRW Reduction Expert | Client: European Agency for Reconstruction Project: Institutional Development of Water Utilities Kosovo – Central and Northern Areas Description: Overall project objective was the managerial and economic development in twelve utilities to provide sustainable provision of water and waste water services. The project included the development of monitoring system regarding operational performance and business planning of the twelve water/sewerage utilities. |
| 07/2002 - | Austria | | Company Director Appointment | Client: Various – see above- Project: Responsible for Consulting Department & Consulting Services. Department Management: Business Development. Description: Acquisition and Implementation of Consultancy Projects and 'Non-Revenue Water Reduction Projects' in the Water & Sanitation Sector. |
| 06/2002 – 01/2003 | Mostar; Bosnia & Herzegovina | | Project Manager | Client: Mostar Water and Sanitation Utility Project: Mostar Water Distribution Network Analyses Description: Establishment of a Hydraulic Model, Design of a Zoning Plan, Active Leakage Control Policy and Investment Program for the Water Distribution Network of 'merged' Mostar Water and Sanitation Utility. |
| 05/2002 – 11/2002 | Cahul, Orhei, Criuleni & Soroca; Moldova | Bristol Water Services GmbH (BWS) – | Project Manager | Client: Ministry of Ecology, Construction and Territorial Development of the Government of Moldova, financed by the World Bank Project: Water Consumption, Distribution Network, Leakage Management, Production Assessment and Investment Analysis Description: The main study components were the Water Consumption, Distribution Network, Leakage Management, Production Assessment, Investment Analysis and identification of Priority Investment. The project covered the cities of Cahul, Orhei, Criuleni and Soroca. |

| Date from – Date to | Location | Company | Position | Description |
|---------------------|---|---|---|--|
| 02/2003 – 06/2002 | Samarkand & Bukhara; Uzbekistan | Bristol Water Services GmbH (BWS) – Permanent Employment; Mr Roland Liemberger, roland.liemberger@bws-austria.com | Project Manager | Client: World Bank - Infrastructure Unit Europe and Central Asia Region Project: <u>Energy Efficiency Audit Bukhara and Samarkand Water Utilities</u> Description: Consulting Services for Site Surveys and Testing of Equipment and Elaboration of Energy Efficiency Evaluation Methodology, Improvement and Specific Investment Strategies for the Bukhara and Samarkand Water Utilities. |
| 09/2001 | Belgrade, Yugoslavia | | Non-Revenue Water Specialist | Client: Kreditanstalt für Wiederaufbau Project: <u>Rehabilitation of Urban Water Supplies and Sanitation in Novi Sad; Niš and Belgrade</u> Description: Establishment of Bursts and Background Estimates (BABE) Model as well as Annual Water Balance for the City of Belgrade within 'Rehabilitation of Urban Water Supplies and Sanitation in Novi Sad; Niš and Belgrade' |
| 05/2001 – 10/2002 | Karaganda, Temirtau and Kokshetau; Kazakhstan | | Project Manager | Client: World Bank PHRD Grant Project: <u>Northeast Kazakhstan Water Supply and Sanitation Project</u> Description: This project was the main technical preparatory component of the 'Northeast Kazakhstan Water Supply and Sanitation Project' , and covered the cities Karaganda, Temirtau and Kokshetau. |
| 01/2001 | Jounieh, Lebanon | | Project Manager | Client: Dogmoch Group Project: <u>Kesourane Water Supply Assessment – System Ftouh</u> Description: Demand, consumption and distribution network analyses of the System Ftouh.; The Non-Revenue Water assessment served as basis for an envisaged water loss reduction programme by the Dogmoch Group. |
| 06/2000 – 10/2003 | Klagenfurt Austria | | Regional Manager for Central & Eastern European Countries & FSU | Client: Various – see above- Project: <u>Various activities</u> Description: Business Development respectively Acquisition and Implementation of Consultancies in the Water Utility Sector in CEEC and FSU for the Bristol Water Group. |
| 11/1999 – 05/2000 | Mostar; Bosnia & Herzegovina | | Project Manager | Client: World Bank - PHRD Grant Project: <u>Mostar Water and Sanitation Project</u> Description: Responsible for the project components ' Demand, Consumption and Water Supply Network Analyses '. The project served as a basis for the merging of the Eastern and Western Utility Company for a jointly managed and operated Water Utility Company in Mostar. |
| 10-12/1999 | Dushanbe; Tajikistan | | Project Manager | Client: Austrian Trust Fund / World Bank Project: <u>Dushanbe Water Supply and Waste Water Project</u> Description: Responsible for the project component ' Demand, Consumption and Water Supply Network Analyses ' within the preparatory work for the envisaged management contract for Vodokanal Dushanbe. |
| 08-09/1999 | Dubrovnik; Croatia | | Project Manager | Client: Senter – The Hague Agency of Ministry of the Netherlands. Project: <u>Rehabilitation and Upgrading of the Waters Supply Distribution Network Dubrovnik</u> Description: Project Development and Feasibility Study on the Rehabilitation and Upgrading of the Waters Supply Distribution Network Dubrovnik . Responsible for the technical component with regard to Consumption, Demand and Water Supply Network System under the envisaged the BOT Project by Larrive International. |
| 07/1999 | Samarkand & Bukhara; Uzbekistan | | NRW Reduction Expert | Client: World Bank Project: <u>Demand, Consumption and Water Supply Network Analysis in Samarkand and Bukhara</u> Description: NRW Reduction Expert in the projects in Samarkand and Bukhara . Responsible for data collection, assessment and evaluation of the "Demand, Consumption and Water Supply Network Analysis . |
| 05/1999 - 05/2000 | Bristol, United Kingdom | Bristol Water Services Ltd. (Former BWCS Ltd.), - Employment | Project Manager | Client: Various- See above- Project: <u>Various activities</u> Description: Studies in the field of water supply network analysis with special focus on water losses in the distribution network as well as in houses and apartment blocks, applying the Bursts and Background Estimates (BABE) concept to model and quantify the aforementioned losses in the supply system on international projects . |

| Date from – Date to | Location | Company | Position | Description |
|-----------------------------|--|--|--|---|
| 09/1998 – 02/1999 | Pristina, Kosovo | International Management Group (IMG) – ECHO & | Deputy Head of IMG Field Office Pristina | Client: International Management Group (IMG) Project: Technical Support Unit to the European Commission Humanitarian Office (ECHO) Description: Evaluation and appraisal of project proposals submitted for funding, Supervision of program implementation, Financial monitoring of the Emergency Shelter and Water & Sanitation Program funded by ECHO and other International Agencies. |
| 03/1996 – 08/1998 | Sarajevo; Bosnia and Herzegovina | International Management Group (IMG) / UNHCR; Mr Dino Bicciano, dino.bicciano@img-int.org | Water & Sanitation Engineer | Client: European Commission, World Bank and USAID Project: Rehabilitation Projects in the Water & Sanitation Sector in Bosnia & Herzegovina Description: The main objectives of IMG were the assistance to the Steering Committee Member Countries, European Commission, World Bank, and USAID in the phase of project identification, project preparation, programming and coordination between the donors and the support of the Office of the High Representative. Main duties: Assessment and prioritization of needs in relation to water, sanitation & solid waste, Institutional Strengthening Program related to Water & Sanitation in the Republika Srpska, Adviser to the Water Authorities in BiH and Coordination with ECHO, Project Manager for implementation and supervision of water rehabilitation projects financed by bilateral donors (e.g. Austria, Spain, Finland, Italy). |
| 01/1995 – 02/1996 | Vienna; Austria | Büro Werner; Mr. Helmut Werner, wien@wernerconsult.at | Design Engineer, Consulting Company | Client: Ministry of Agriculture and Environment Protection of the Austrian Government Project: Danube River Basin Protection Project. Description: Elaboration of feasibility studies and design of water and sanitation systems and flood protection plans. Consulting of Municipal Authorities in the Province Lower Austria |
| 10-11/1994 | Edelsthal & Pama; Austria | ÖeKOTEC, Büro für Umweltechnik, Wasser- & Abfallwirtschaft; | Design Engineer, Consulting Company | Client: Municipality of Edelsthal and Pama Project: Wastewater Network Assessment and Extension Description: Design for sewage system rehabilitation and design for extension/safeguarding of building rubble disposal site in two Municipalities in the Province Burgenland. |
| 08-09/1993 | Kittsee; Austria | Mr. Christoph Fehringner, c.fehringner@oekotecgmbh.at | Design Engineer, Consulting Company | Client: Municipality of Kittsee Project: Wastewater Network Assessment and Extension Kittsee Description: Design of sewerage systems; Assessment of municipal solid waste collection systems , Consulting of Municipal Authorities in the Province Burgenland |
| 07-09/1992 | Mattersburg; Austria | | Design Engineer, Consulting Company | Client: Municipality of Mattersburg Project: Solid waste Project Central Burgenland Description: Design of solid waste disposals sites, temporary landfills for construction rubble and analyses of existing sewerage collection systems in the Provinces Burgenland |
| 07-08/1991 | Lockenhaus; Austria | Sterlinger & Co Bauges.m.b.H.; sterlinger.co@htb.at | Project site manager | Client: Regional Government of Province Burgenland. Project: Re-construction of a Federal Road B56 Description: Construction of a Federal Road in the town area of Lockenhaus, responsible for quantity and site survey and the construction management. |
| 1978 – 1989 (summer months) | Austria | G. Hinteregger & Söhne; Mr Matthias Reisner, ghs@wien.hinteregger.co.at | Project manager, Survey engineer & Cost controller | Client: Various Project: Various activities Description: Various construction projects in the fields of solid waste (construction of landfills) and waste water, industrial and transport facilities (Highways and Underground) in the Eastern Region of Austria. |

15. Other relevant information (e.g. Publications):

Andreas Stoitsits & Roland Liemberger; 'Performance Target Based Non-Revenue Water Reduction Contracts – A new concept successfully implemented in Southeast Asia'; IWA specialised Conference – System Approach to Leakage Control and Water Distribution System Management, Brno, 2001

Andreas Stoitsits; Elaboration of the treatment plant Güssing-Glasing of the Sewage Works Mittleres Strem- and Zickenbachtal, focusing on aeration, flow velocity and denitrification in the biological unit; Universität für Bodenkultur Wien; 1991

Emergency Infrastructure in Disaster Regions Austrian Red Cross, Vienna, October 1997

16. References:

| | | |
|---|--|-----------------|
| Mr. Uwe Moshage Director International Business | Dahlem-Consulting Engineers GmbH & Co. Bonsiepen 7, 45136 Essen, Germany u.moshage@dahlem-consult.com | +49 2018967 180 |
| Mr. Gerhard Zimmerl Managing Director | SETEC Engineering Feldkirchner Strasse 50, 9020 Klagenfurt, Austria. gzimmerl@setec.at | +43 463 58080 |
| Mr. Roland Liemberger Managing Director | Liemberger & Partners GmbH Bahnhofstrasse 24, 9020 Klagenfurt, Austria roland@liemberger.cc | +43 463 500577 |
| Ms. Seema Manghee Task Team Manager ECA - Infrastructure & Energy Dept. | The World Bank Group 1818 H Street, N.W. , Washington, D.C. 20433, U.S.A.; Smanghee@worldbank.org | +1 202 4734278 |
| Mr. Alan Parsons CEO | Bristol Water Holdings plc PO Box 218, Bridgewater Road ; Bristol BS99 7AU, UK; alan.parsons@bristolwater.co.uk | +44 117 9665881 |
| Mr. Odran Hayes Programme Manager - Infrastructure | Delegation of the European Union to Guyana, Suriname, Trinidad & Tobago and the Dutch Overseas Countries and Territories 11 Sendall Place, Stabroek, Georgetown, GUYANA odran.hayes@eeas.europa.eu | +592 226 4004 |
| Mr. Matthias Reisner Managing Director | Formerly: G. Hinteregger & Söhne GmbH Baranygasse 7, A-1220 Vienna, Austria ghs@wien.hinteregger.co.at | +43 1 2821537 |