

*Worldwide Network
Regional Knowledge
& Local Insight*



LOUIS BERGER

Urban Waste Water Management with a focus on Sustainable Rainwater Systems

Płock, Poland - 30th November - 2nd December 2010

ABOUT US

LOUIS BERGER is part of the **Berger Group** which is one of the largest global infrastructure engineering, environmental science and economic development consultancies, providing diverse leadership across industry sectors, service lines and geographies.

Our mission is to:

- Develop infrastructure to improve peoples' lives,
- Preserve our environment, and
- Enhance economic development.

KEY FACTS

- **The Company:** member of the **Berger Group**, it was founded in 1975, with its headquarters in Paris, France.
- **Our staff:** Group-wide, over 5,000 personnel plus several hundred contracted experts.
- **Our Clients:** more than 100 foreign governments and international organizations.
- **Our work:** over 300 projects implemented in the CEE and CIS region. Currently, the Group is involved in hundreds of projects, in 90 countries on 4 continents.

CEE COVERAGE

Louis Berger locations

- **Our offices:** almost 60 offices in 15 CEE and CIS countries



- Albania - 4 offices
- Belarus - 1 office
- Bosnia and Herzegovina - 2 offices
- Bulgaria - 4 offices
- Croatia - 2 offices
- Hungary - 1 office
- Kosovo - 4 offices
- Macedonia - 1 office
- Moldova - 3 offices
- Montenegro - 1 office
- Poland - 1 office
- Romania - 20 offices
- Russia - 1 office
- Serbia - 5 offices
- Ukraine - 7 offices

ENVIRONMENTAL EXPERIENCE

Environmental Engineering and Sciences, including Urban Development and Planning

The firm provides a complete range of environmental engineering services in water supply, sewerage, solid waste management, industrial wastewater treatment and hazardous waste management.

Louis Berger is also a leader in the field of environmental studies including evaluation and assessment for the infrastructure field.

ENVIRONMENTAL EXPERIENCE

- Water Supply Treatment and Distribution
- Wastewater Collection and Treatment
- Drainage and Stormwater Systems
- Construction Management & Inspection
- Program Management
- Landfills and Solid Waste Management
- Site Assessments and Environmental Audits
- Environmental Impact Statements and Permitting
- Noise, Air and Water Pollution
- Monitoring and Analysis
- Wetlands Analysis and Mitigation
- Soil Conservation and Drainage Management
- Terrestrial and Aquatic Biology Studies
- Ecological Restoration
- Natural Resource Damage Assessments
- Cultural Resources
- Coastal Zone Management
- Public Involvement Programs
- Socio-economic and Fiscal Impact Analysis
- Risk Assessments

ILLUSTRATIVE PROJECTS IN CEE REGION

- ✓ **Renovation of the Existing Sewage Networks on left riverbank of Szczecin, Poland (2004-2009);**
- ✓ **Support for the Project Implementation Unit ISPA Measure "Bydgoszcz Water and Sewerage Project", Poland (2002-2004);**
- ✓ **Environmental Legislation and Planning, Albania (2004-2006);**
- ✓ **Construction Supervision of Reconstruction and Extension of the Waste Water Treatment Plant in the city of Zvolen, Slovakia (2004-2007);**

ILLUSTRATIVE PROJECTS IN CEE REGION

- ✓ Supervision of the Rehabilitation and Upgrading of the Sewerage Network Located on the Left Bank of Maritsa River of the Town of Dimitrovgrad, Bulgaria (2006-2010);
- ✓ Technical Assistance for Implementation of six ISPA Measures for Wastewater collection and treatment in Bourgas-Meden Rudnik, Targovishte, Lovech, Montana, Sevlievo and Popovo, Bulgaria (2004-2010);

ILLUSTRATIVE PROJECTS IN ROMANIA

- ✓ Technical Assistance (TA) for the Management and Supervision of ISPA Contracts in Iasi (ISPA) (2002-2007);
- ✓ TA for Preparation of 5 Projects in Environment Sector (2007-2009);
- ✓ TA for Management and Supervision of the ISPA Contracts in Braşov (2003-2008);
- ✓ TA for Management and Supervision of the ISPA Contracts in Piatra Neamt (2005-2008);
- ✓ TA for Institutional Capacity Strengthening of ISPA Final Beneficiaries in the Water and Wastewater Sector, Romania (2005-2009);
- ✓ TA for project implementation and FIDIC works supervision in Baia Mare (2006-2010) – European Union;
- ✓ TA for Management and Supervision of the ISPA Projects in Botosani (2006 – 2010);

ILLUSTRATIVE PROJECTS IN ROMANIA

- ✓ TA and Supervision of the ISPA contracts in Deva-Hunedoara (2007-2010);
- ✓ TA for Management and Supervision of the ISPA Projects in Caras-Severin (2007-2010);
- ✓ TA for Project Management of extension and rehabilitation of water and waste water system in Turda - Campia Turzii region, ESC (2009-2013);
- ✓ TA and supervision of the Modernization of the water supply and sewage system in Vrancea County, European Social and Cohesion fund (2010-2014);
- ✓ TA for Project Management “Rehabilitation and Modernization of the water supply and sewage system in Constanta-Ialomita Counties”, ESC (awarded in 2010);

WASTE WATER MANAGEMENT IN ROMANIA

- ❑ Romania joined the European Union on 1st January 2007
- ❑ Sectoral Operational Programme Environment (SOP-E) approved and functional as of 11th July 2007; Total budget for SOP-E: **Euro 5.6 billion, out of which Euro 4.5 billion from EU co-financing**
 - **Priority Axis 1 (PA1): Extension and modernization of water/waste water systems**
 - Priority Axis 2 (PA2): Development of integrated waste management systems and rehabilitation of historically contaminated sites
 - Priority Axis 3 (PA3): Reduction of pollution and mitigation of climate change by restructuring and renovating urban heating systems towards energy efficiency targets in the identified local environmental hotspots
 - Priority Axis 4 (PA4): Implementation of adequate management systems for nature protection
 - Priority Axis 5 (PA5): Implementation of adequate infrastructure of natural risk prevention in most vulnerable areas
 - Priority Axis 6 (PA6): Technical Assistance

WASTE WATER MANAGEMENT IN ROMANIA

Priority Axis 1 (PA1): Extension and modernization of water/waste water systems

Waste water treatment about Euro 9.5 billion needed for wastewater collection and treatment, out of which Euro 4.8 billion estimated in the period 2007-2013.

- 71% of the waste water is untreated or insufficiently treated and flows directly into natural receivers;
- only 52% of Romania's population is connected both to water and sewerage services;
- all territory of Romania declared sensitive area; advanced treatment (more expensive);

WASTE WATER MANAGEMENT IN ROMANIA

Priority Axis 1 (PA1): Extension and modernization of water/waste water systems

Funding needs: Euro 4.8 billion

EU grants (Cohesion Fund): Euro 2.78 billion

42 major investment projects (MIP):

at the level of 2010: 16 MIP approved

Value of the 16 approved MIP is Euro 1.8 billion (approx.) split as follows:

Cohesion Fund - Euro 1.4 billion

State budget – Euro 220 million

Local budget – Euro 34 million

Beneficiary's contribution – Euro 160 million

WASTE WATER MANAGEMENT IN ROMANIA

Priority Axis 1 (PA1): Extension and modernization of water/waste water systems

Another 3 Funding Applications (value: approx. Euro 390 million) are under assessment at EC level.

22 Funding Applications (value: approx. Euro 2.5 billion) are under preparation at various stages: elaboration/review of the Master Plans, Feasibility Studies, Funding Applications.

Compliance with EU Directive 98/83/EC regarding the quality of water, until 2015.

Compliance with EU Directive 91/271/EC regarding the treatment of urban waste water, until 2018.

WASTE WATER MANAGEMENT IN ROMANIA

Priority Axis 1 (PA1): Extension and modernization of water/waste water systems

PROJECTS TENDERED UNDER MIP INCLUDE:

- Technical Assistance: preparation of Master Plans, Feasibility Studies, Cost – Benefit Analyses, Funding Applications, Tender Documents, Design services
- Supply of equipments: SCADA, GIS, hydraulic modeling, leak detection
- Supervision of works
- Works contracts for construction/rehabilitation/extension of water distribution networks and waste water collection networks (Red FIDIC), pumping stations, water/waste water treatment plants (Yellow FIDIC)

WASTE WATER MANAGEMENT IN ROMANIA

Priority Axis 1 (PA1): Extension and modernization of water/waste water systems

Delays in the implementation of the projects were encountered:

- **At planning level:**

- delayed approval of the priority investment lists
- difficulties in the classification of clusters in accordance with EU Directive 91/271/CEE regarding the treatment of urban waste water, standing as basis for the selection of priority investments
 - different interpretations of the Directive's provisions
 - lack of sufficient data at local level (e.g. local urban plans, mapping out of date)
- various institutions/programmes designed to invest in the water/waste water sector – overlapping of investments and responsibilities

WASTE WATER MANAGEMENT IN ROMANIA

Priority Axis 1 (PA1): Extension and modernization of water/waste water systems

Delays in the implementation of the projects were encountered:

- **At implementation level:**

- delays in securing funds from Beneficiaries
- VAT non-recovery by Regional Water Operators (no legal provision in this regard)
- delays in awarding the consultancy or works contracts planned under the projects

WASTE WATER MANAGEMENT IN ROMANIA

Priority Axis 1 (PA1): Extension and modernization of water/waste water systems

REFORMS UNDERTAKEN IN THE SECTOR TO OVERCOME OBSTACLES:

- amendment of the legal framework leading to the regionalization of the water services
- regional investment plans on the long term = Master Plans
- improvement of the institutional framework: coordination of investment programmes at national level and approval of investments at local level by the water operator / county council
- setting up a reserve fund at national level for covering any temporary shortcomings in funds from the part of the Beneficiaries
- amendment of the law to allow for VAT reimbursement to regional water operators
- elaboration of guidelines at national level (FS, MP, CBA etc.)

WASTE WATER MANAGEMENT IN ROMANIA

Regionalization process of public utilities

Goal: - to create regional bodies able to ensure the adequate implementation of EU investments in the sector and efficient operation of public utilities.

Objective: - to focus management of water services via 50 water companies serving 2,600 localities with over 2,000 inhabitants, by 2018.

3 key elements in the regionalization process:

-The Association for Intercommunity Development (AID) + Regional Operating Company (ROC) = Services Management Delegation Contract (SMDC)

WASTE WATER MANAGEMENT IN ROMANIA

Regionalization process of public utilities

Services Management Delegation Contract

Association for Intercommunity Development

- retains the ownership of the public utilities,
- has the responsibility for adequate supply of water and sewerage services to the population

Regional Operating Company

- retains the responsibility to operate and maintain the utilities,
- has the commercial and financial risks,
- sets up the investment planning,
- set up the tariff policy, according to the National Regulatory Authority for Local Public Services (NRALPS) and with the local authority's approval

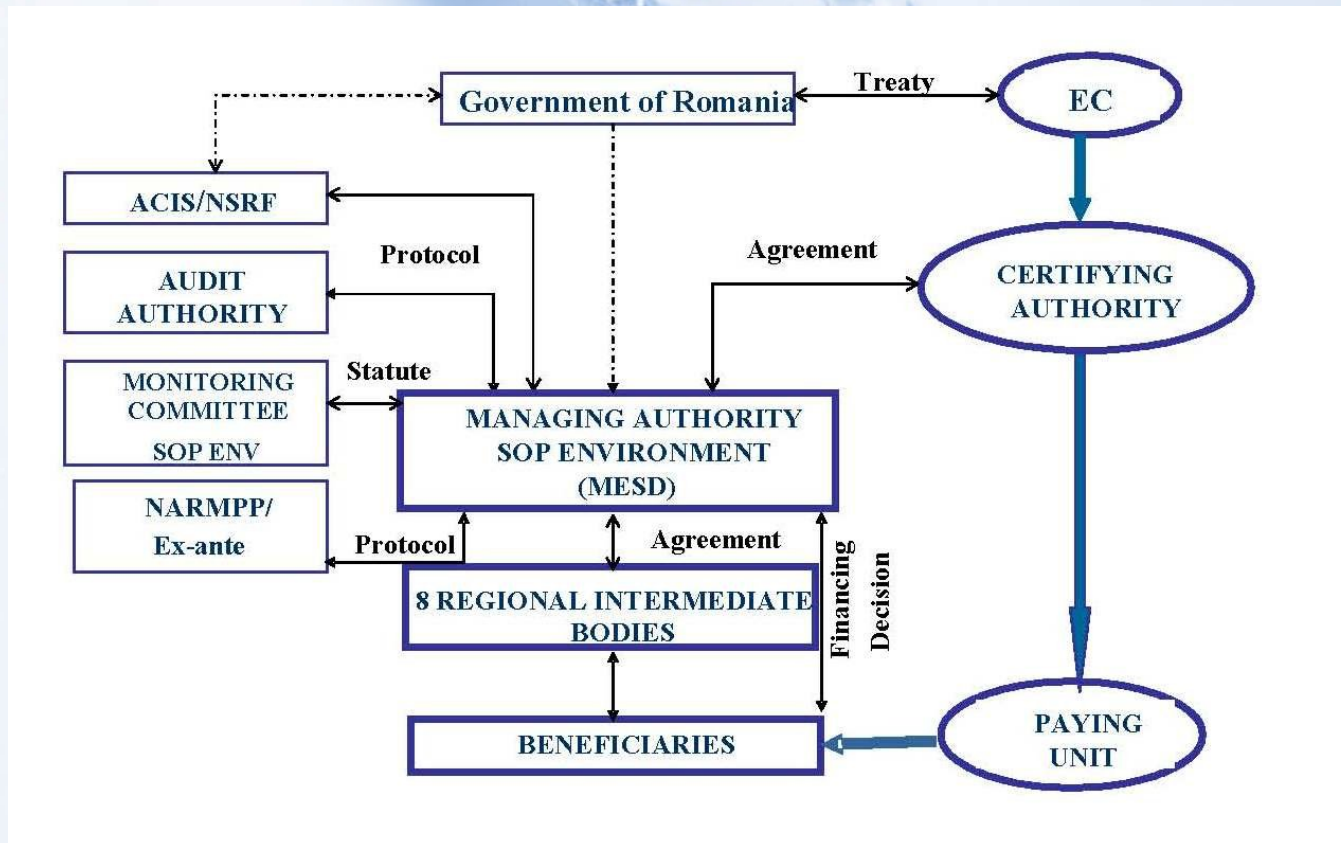
WASTE WATER MANAGEMENT IN ROMANIA

Institutional framework

European Commission			Receives reports prepared at the Monitoring Committee's level	Annual Implementation Report	Receives the Final Report at SOP level	
Monitoring Committee						
Managing Authority for SOP Env	Ad-hoc reports	Checks the Inception Report	Checks the Monitoring Summary Reports	Centralizes reports at the level of each Priority Axis and prepares the reports for the Monitoring Committee and the Annual Implementation Report	Receives the Project's Final Report and prepares the Final Report at SOP level	Reviews the report on the feasibility of the investment
Intermediary Bodies (8)	Ad-hoc reports		Check the Monthly Progress Report / prepare the Monitoring Summary Reports		Check the Project's Final Report	Review the report on the feasibility of the investment
Beneficiary	Financing Application	Prepares the Inception Report	Prepares the Monthly Progress Report (monthly progress sheet)		Approves the Project's Final Report	Checks the report on the feasibility of the investment
Consultant			Prepares the Progress Report		Prepares the Project's Final Report	Prepares the report on the feasibility of the investment
Project preparation			Project implementation			

WASTE WATER MANAGEMENT IN ROMANIA

Framework of implementation of SOP-E



ACIS - Authority for Coordination of Structural Instruments

NSRF - National Strategic Reference Framework

MESD - Ministry of Environment and Sustainable Development

NARMPP - National Authority for Regulating and Monitoring of Public Procurement

Dziękuję!

Jaroslaw Przybylski - Team Leader

E-mail: jprzybylski@lbsas.eu

Antonina Petrescu - PPP Unit Deputy Coordinator

E-mail: antonina.petrescu@louisberger.ro

www.louisberger-france.com

www.bergergroup.com



CONTACT DETAILS

Louis Berger Regional Office

Blvd. N. Titulescu No. 1, Bloc A7,
Entrance C, Floor 8, Ap. 85, Sector 1,
011131, Bucharest, Romania.

Tel.: +(40 21) 317 96 39 / 318 21 23/24

Fax: +(40 21) 318 21 21

Web: www.louisberger-france.com