



International Project Activities

Montenegro

A consortium led by Sachsen Wasser has been recently awarded a KfW-funded project in Montenegro. The 3-year project “Consulting Services for Institutional Support of Capacity Development of Vodacom and Water Supply and Wastewater Utilities” will target 4 water utilities (ViKs) on the Montenegrin Adriatic coast as well as the regional service company and PEA Vodacom d.o.o..

The main objective of this Institutional Support / Capacity Development Project is to support the local utilities and authorities in developing a sustainable provision of communal water and wastewater services for the resident citizens and the seasonal (tourism) population, for public health and environmental protection in the coastal region.

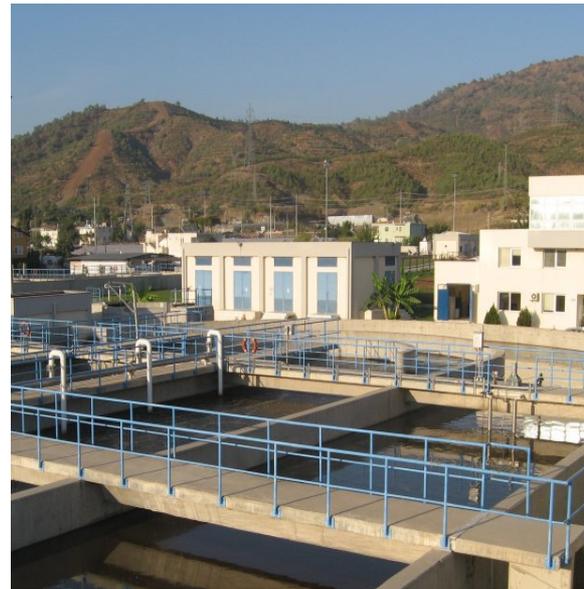
In this regard, the institutional performance of the four individual ViKs of Tivat, Kotor, Herceg Novi and Bar is to be increased through consulting support and specifically staff training in technical and financial aspects of utility management and operation. Further, the PEA Vodacom is to be assisted, and its staff to be trained, in order to facilitate exercise of its mandate as the regional service company for the communities of the coastal region.

Sachsen Wasser will provide support in Business planning, tariff policy, meter reading, billing and collection, customer service, debt collection, identification and implementation of MIS structures and systems, internal and regional benchmarking, operation and preventative maintenance of water and wastewater infrastructure, stockyard management, hydraulic modeling, digital mapping, network zoning, leak-reduction, and support for the optimization of internal processes and structures among others. Also support regarding service contracts and other legal services will be provided. The approach will include strengthening Vodacom staff as well as ViK staff. ■



Fethiye, Turkey

In the second quarter of 2009 Sachsen Wasser finalized the project "Consulting Services for the Elaboration of a Feasibility Study for the Project Sewage Disposal Fethiye II" which comprised the elaboration of a Feasibility Study (FS) as well as pre-design for the extension of the Fethiye sewer network and WWTP. A detailed assessment phase included the evaluation of current environmental, topographical, socio-economic and financial and institutional status of the area as well as of the prospective communes destined to join the existing sewer network as well as of the operating company FESKI. In a conceptual phase, the Consultant investigated several alternatives and their implications for WWTP extension for different project components and determined the Best Practical Option (BPO) for the Project, based on an Evaluation Matrix including the Net Present Value (NPV) and a number of other criteria. The Financial Analysis used the Best Practical Option as a base and identified Dynamic Prime Costs, tariffs, and cash flow projections for the different Municipalities and the Operating Company. Several scenarios were assessed and an affordability and sensitivity analysis undertaken. A Draft Service Contract for the participating Municipalities was elaborated as a



basis for the envisaged institutional set-up of the Project. Additional studies were performed to assess the pollution potential from local fish farms and to assess possibilities for wastewater treatment from boats in Fethiye Bay. Finally, the Feasibility Study included the elaboration of an implementation plan for the Project, as well as Project Planning Matrix. ■

The Ministry for Energy and Water, Kuwait, has contracted Sachsen Wasser to conduct a 3-week training for water network specialists. The training topics included seminars and practical

Germany / Kuwait

sessions / excursions regarding network design, material selection, water production, quality control and storage, network operation, maintenance and control. ■



Germany / Amman

Sachsen Wasser as commercial and technical operator is part of the teaching staff of the international M.Sc. Program supported by the German Academic Exchange Service (DAAD).

In a one-week summer school in Leipzig, students are confronted with practical issues in water and wastewater management. <http://iwrmmaster.web.fh-koeln.de/2.1.html> ■



Germany / Mongolia

In June, Sachsen Wasser hosted a group of public officials, Governors and Directors of private companies from Mongolia in Leipzig. Focus was the institutional changes from centralized to market oriented utility management as well as sludge treatment. A visit of WWTP Rosental, the largest WWTP in Leipzig, completed the program. Sachsen Wasser is looking forward to future projects in that region. ■

Further activities

Besides these projects, work continues in projects in Bosnia-Herzegovina, Albania, Egypt, the Palestinian Territories, Syria, Lebanon, Afghanistan, and Mexico.

Sachsen Wasser continues to develop projects in water supply and wastewater management in Germany, Central & Eastern

Europe, Asia and the Middle East. Still new is our interest in Latin-America (e.g. Mexico and Brazil). Initial steps have also been made in Anglo- and Francophone Sub-Saharan Africa. ■

Sachsen Wasser Activities in Germany

A consortium led by Sachsen Wasser has been contracted to develop an Energy Concept for the Water and Wastewater Association Havelland (WAH) in Brandenburg/ Germany.

The WAH is responsible for the water supply and wastewater treatment of approx. 45,000 inhabitants. For this purpose ~7 water works, 3 wastewater treatment plants, ~245 pumping stations and the corresponding networks are operated and maintained. The service area of the WAH is very extensive, thus relatively large operating costs are observed.

Since April 2009 Experts of Sachsen Wasser and MegaWatt GmbH Berlin are conducting the related analyses on site. The Energy Concept will address two main issues:

- 1) Optimization of existing facilities
- 2) Analysis of the potential for energy generation with biogas, solar and wind power.



In order to determine the optimization potential of the existing facilities Sachsen Wasser will assess all relevant data of energy consumers such as treatment plants, water works and pumping stations. Objective of the subsequent detailed analysis is the increase of energy efficiency and/or the reduction in energy consumption. Overall operation (energy) costs shall be reduced.

In a second step the potential for use of regenerative energies shall be assessed.

First of all a cost-benefit analysis of anaerobic sludge digestion will be conducted. Additionally the potential for the installation of solar panels and/or wind turbines will be investigated.

As German legislation included subsidies for energy from regenerative sources, the Energy Concept will also compare feeding the generated energy into the general network vs. using it on site.

All measures are subject to their economic viability and their environmental impact. ■

Our company is constantly searching for highly qualified short- and long-term specialists. Therefore we also welcome a distribution of this newsletter to your colleagues and friends.

We are looking forward to a further professional co-operation with you on the current projects and on any suitable project that may be coming up. Please feel free to contact us any time for requests and/or suggestions.

In case you have an updated CV please feel free to send it to us such that we can update our database and match you to projects more easily.

Note:

If you don't want to receive Sachsen Wasser's half-yearly project updates, please let us know by short return e-mail.

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