



Saranda

Wastewater Treatment Plant



Republic of ALBANIA
Ministry of Public Works
and Transport
Water PIU



Lezha & Shengjin

Wastewater Treatment Plant



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and Transport
Water PIU



Client



REPUBLIC OF ALBANIA
Ministry of Public Works
and Transport
Water PIU

Contractor



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Sub-Contractor



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Consultant:



Joint Venture
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Weinbergstrasse 35, D 67551 WORMS – Germany
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Main Suppliers



Screens, Belt Conveyor,
Desanding Units



Penstocks, Metal Works



Submersible Pumps



Surface Aerators



Gen-Set



Progressive Cavity Pumps



Gate Valves, Butterfly Valves,
Check Valves



HD-PE Pipes



Low Voltage Switchboards,
SCADA System



Manometers



Electric Equipments



Air Compressors



Instruments



Instruments



Medium Voltage Switchboard



Chemicals Dosing Station



Laboratory & Control Equipment



Pipe Fittings



Furnishings/Bronnengery



Furnishings



Electric Cables



HD-PE Tanks



Fuel Tanks



Laboratory Equipment



The City

Saranda is the capital of the District of Sarandë, Albania, and is one of the most important tourist attractions of the Albanian Riviera. Saranda as well as the rest of the Albanian Riviera, according to The Guardian, "is set to become the new 'undiscovered gem' of the overcrowded Med." It is situated on an open sea gulf of the Ionian Sea in the Mediterranean, two nautical miles from the Greek island of Corfu. The city of Saranda has a population of about 30,000 (as of 2001 estimate).

The Plant

The wastewater treatment facilities for the city of Saranda are located in former land reclamation area (cadastral part. 125, 129, 130). The wastewater facilities comprise one inlet pumping station, one pre-treatment (two screens, two aerated grit chambers, one Venturi channel, ferric chloride dosing for phosphorous removal), three oxidation ponds, three lines of constructed treatment wetland, one disinfection station, four sludge reed beds, operation/laboratory building, infrastructure services, transformer station (250 kVA) and diesel-driven emergency power generator set (250 kVA). The wastewater treatment plant has a capacity of 60,000 population equivalents and is designed to cope with a biological load of 1,440 kg/day and with a hydraulic load of 14,400 m³/day.

Saranda
Wastewater Treatment Plant



The Objective

Water pollution has caused significant deterioration of the natural inland ecosystems as wastewater is discharged into tidal marshlands or to the marine coastal zones. The objective is protection, restoration and enlargement of endangered coastal and marine habitats by introducing wastewater treatment facilities for the cities of Lezha, Shengjin and Saranda with a total estimated population of 111,000 in year 2022.

The Client / The Donors / The Contractor

The wastewater treatment facilities for the cities of Lezha, Shengjin and Saranda were part of measures implemented under the "Albania Integrated Water and Ecosystems Management Project" financed by a blended loan and credit provided by the World Bank (International Development Association with Global Environment Facility – IDA-GEF) and by the European Investment Bank (EIB), supplemented by financial contributions from the Government of Albania.

The measures were administered by the Ministry of Public Works and Transport, Water Implementation Unit (PIU).

The Italian company Giovanni Putignano & Figli S.r.l. constructed the wastewater treatment facilities for the cities of Lezha, Shengjin and Saranda.

The Cities

Lezha is a city in northwest Albania, in the district and county with the same name. The city was founded around 385 BC as a Greek colony by Dionysius I of Syracuse by the name of Lissos (Λισσός). According to other historians, Lezha is considered as the site of the League of Lezha where Skanderbeg united the Albanian princes in the fight against the Ottoman Empire. It has a population of around 28,000 (as of 2009 estimate).

Shengjin is a coastal town in the Lezha District. The town is home to one of Albania's entry ports, Port of Shengjin.

The Plant

The wastewater treatment facilities for the cities of Lezha and Shengjin are located in the vicinity of Ishull of Shengjin. The wastewater facilities comprise one inlet pumping station, one pre-treatment (two screens, two aerated grit chambers, one Venturi channel, ferric chloride dosing for phosphorous removal), three oxidation ponds, four sludge reed beds, operation/laboratory building, infrastructure services, transformer station (160 kVA) and diesel-driven emergency power generator set (160 kVA). The wastewater treatment plant has a capacity of 51,000 population equivalents and is designed to cope with a biological load of 1,224 kg/day and with a hydraulic load of 12,240 m³/day.

Lezha & Shengjin
Wastewater Treatment Plant

