wte
EVN Group

Anthoupolis
Cyprus

Following an international tender procedure WTE in consortium with BAMAG was awarded the contract for design, build, operation and maintenance of the wastewater treatment plant Anthoupolis in Nicosia/Cyprus.

After completion of the project WTE was able to make a significant contribution to the development of the island's infrastructure by delivering German wastewater technology and additionally by undertaking the long-term operational management of the installations.

Technical details

The plant used advanced wastewater treatment with nitrification and denitrification as well as a downstream membrane system as a substitute for final clarification and for further disinfection using Membrane Bio-Reactor (MBR technology).

Project key figures	
Commissioning	January 2008
Operation WTE	10 years
WWTP key figures	
PE	130,000
Max. m^3/d	13,000
Average m^3/d	9,300

Chemical and biological parameters		
	Influent	Effluent
BOD_5	600 mg/l	≤ 5 mg/l
COD	1.277 mg/l	≤ 30mg/l
TSS	400 mg/l	≤ 0.5mg/l
TKN	100 mg/l	≤ 5 mg/l
Total P	30 mg/l	1 mg/l

Apart from the technical efficiency of wastewater treatment, the architectural design concept responds to the local landscape and ensures minimal visual impact. Based on long time experience of WTE as operator, all structures and buildings have been designed to guarantee a functional and reliable operation.

The treated sewage effluent is fulfilling highest available standards and is used for irrigation purposes on Cyprus.