

WWTP Gevgelija

Gevgelija Macedonia



**Design and build of Waste Water Treatment Plant (WWTP) Gevgelija
with a capacity of 30'000 Population Equivalent (PE).**

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Technical details

FELA Planungs AG provides **Design and Built** of new Waste Water Treatments Plants

WWTP Design Figures	Basic Design	Unit
Hydraulic Design Load Values:		
Population equivalent	30'000	PE
Max. dry water influent	540	m ³ /h
	150	l/s
Total amount of daily influent	8'500	m ³ /h
Rain weather influent	1'080	m ³ /h
	300	l/s
Biological design load values (in raw wastewater):		
BOD ₅	1'800	kg BOD ₅ /d
COD	3'600	kg COD/d
Kj-N (tot)	270	kg N/d
P _{tot}	54	Kg P/d
Process Design values:		
Design temperature	10	°C
Dry matter concentration in biological reactor	4.3	g MLSS/l
Sludge volume index	120	ml/g
Sludge age	20	d

WWTP Gevgelija, Macedonia

The environment, especially water resources and the biodiversity richness of Macedonia, presents one of the major values and potentials for the future development of the country.

The objectives of the construction of the wastewater treatment plant in Gevgelija are: improvement of the water quality in the river Vardar, safe irrigation downstream, fostering trans-boundary cooperation with Greece, assistance for Macedonian government to fulfill the requirements of the EU water related directives and international regulation..

