

Preparation of renovation of AS Narva Vesi WWTP technology in Narva

AS Narva Vesi

BSAP-2023-157

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Executive summary of the project

Narva Wastewater Treatment Plant (city Narva, Estonia)



Project's main objective and goal was to implement all required research, technical audits of existing wastewater treatment plant in order to prepare documentation for design-built tender renovation of wastewater plant (including renovation of mechanical, biological and chemical treatment of sewage; sludge treatment technology and facilities; usage of methane gas for production of electricity; preparation of new SCADA) to reduce the influence of household and industrial pollution to River of Narva which is in very poor condition (according to River Basin Management Plan of 2016). All the documentation mentioned has been prepared and finished. Main environmental benefit is reduction of phosphorous and nitrogen pollution in discharged wastewater to Narva River.

Main key lesson was learned that the budget of 165 thousands EUR per for research, technical audits and designings too small amount. Bigger budget must be planned. Only very basic documentation can be prepared. Therefore for future projects of similar scale, either the scope of work should be reduced or the implementation period extended. A project of this size realistically requires at least two years: one year for research and one year for design. Preparation for reconstruction of wastewater treatment facilities (all complete set) need huge amount of time, energy and sums.