



## BRUS & BLACE

### KEY INFORMATION ABOUT THE PROJECT

WASTEWATER COLLECTION AND TREATMENT SYSTEM IN BRUS AND BLACE  
(Brus and Blace municipalities and their constituent settlements)

EU PPF6/EuropeAid/137044/DH/SER/RS

Sector: Environmental protection/Wastewater management



The **Municipality of Brus** is located in the south part of Central Serbia, in the Rasina river valley, on the eastern slopes of Mount Kopaonik. The municipality spreads over 233.978 square miles and 58 settlements. The settlement of Brus sits on banks of the Rasina river, approximately 9.3 miles west of its mouth in the Blatašnica river and the south side of Lake Čelije. According to the 2011 census, Brus had a population of around 4,500. In terms of collection and disposal of urban waste water, Brus agglomeration is made up of Brus itself and the following settlements: Kobilje, Velika Grabovica, Mala Grabovica, Drtevci, Žiljci, Tršanovci, and Lepenac.

The **Municipality of Blace** is located in the south part of Central Serbia, in the Toplice valley, on the east slopes of Mount Kopaonik and southeast slopes of Mount Jastrebac. The municipality spreads over 118 square miles and 40 settlements. For the most part, Blace settlement is located north of the Blatašnica river – on its right bank and 7.4 miles east of its mouth in the Rasina river. Blace agglomeration is made up of the town of Blace itself with a population of approximately 5,500, according to the 2011 census.

The existing sewerage system is partially separated in both municipalities. Brus and Blace are largely covered by the sewerage network, while the surface water sewer is underdeveloped, especially in the surrounding settlements.

These two municipalities are major sources of untreated wastewaters that flow into the Rasina, Graševka, and Blatašnica rivers.

Wastewater spills directly result in polluting the Rasina river and its tributary Blatašnica, which is why they are identified as the main polluters of the accumulation lake Čelije. Majdevo drinking water treatment plant uses the water intake structure in Lake Čelije that provides drinking water for approximately 300,000 consumers in Kruševac, Varvarin, Aleksandrovac, Čičevac, and Trstenik.



The main goal is to enhance environmental protection through investing in improving the environmental infrastructure in Brus and Blace municipalities.

## PROJECT OBJECTIVES

- » Improving the water quality in the Rasina and the Blatašnica and protecting them against harmful effects caused by direct discharge of wastewater;
- » Preventing further pollution and protecting Lake Čelije as the drinking water supply source for the Rasina District;
- » Improving the quality of the environment through indirect effects, improved sanitation protection, and reduced public health risks for the citizens of Brus and Blace;

## PROJECT PURPOSE

Within the EU PPF programme, the EU PPF6 project unit's expert team will produce the tender documentation for:

- » Design and construction of a tertiary wastewater treatment plant (SBR type) with a capacity of 10,500 PE for Brus;
- » Reconstruction of 4.2 miles of priority sections of sewerage network in Brus;
- » Construction of new sewerage network parts for wastewater and stormwater in Brus, 5.2 miles in length;
- » Design and construction of a tertiary wastewater treatment plant (SBR type) with a capacity of 10,500 PE for Blace;
- » Reconstruction of 2.8 miles of Blace sewerage network's priority sections;
- » Construction of new sewerage network parts for wastewater and stormwater in Blace, 2.1 miles in length.

## RESULTS

- » Procurement Plan – completed in January 2018;
- » Tender Documentation for the construction of wastewater treatment plants (WWTP) in Brus and Blace – June 2018;
- » Tender Documentation for the construction and reconstruction of the sewerage network for wastewater and stormwater in Brus and Blace – July 2018 ;
- » Accompanying training programme for strengthening the administrative, managerial, and operational capacities of the project participants – IN PROGRESS.

## PROJECT STATUS (JANUARY 2019)

### Project results

Procurement Plan	Tender Documentation for the construction of WWTPs Brus and Blace	Tender Documentation for works on the sewerage networks in Brus and Blace
JANUARY 2018	JUNE 2018	JULY 2018

### The project is part of documented development strategies:

Current urban planning documents for Brus and Blace municipalities; Water Management Strategy for the territory of Republic of Serbia until 2034; National Priorities for International Assistance 2014–2017; National Environmental Protection Action Plan; National Environmental Approximation Strategy for the Republic of Serbia 2011–2019.



## INSTITUTIONAL PROJECT KRUŠEVAC, BRUS AND BLACE (The City of Kruševac, the municipalities of Brus and Blace and Rasina district)

In order to secure launching of public call for tender under the tender documentation prepared by the **EU PPF6 team for the project WASTE WATER COLLECTION AND TREATMENT SYSTEM IN BRUS AND BLACE** and thus realization of approved grants from the European Union pre-accession funds for construction of the wastewater treatment plants (WWTP) in Brus and Blace, the Delegation of the European Union to the Republic of Serbia requested that the municipalities of Bruce and Blace provide evidence of the intention for long-term management and maintenance of their future WWTPs.

EU PPF6 project team of experts has therefore, within the frame of specific project task titled INSTITUTIONAL PROJECT KRUŠEVAC, BRUS AND BLACE (the City of Kruševac, the municipalities of Brus and Blace and Rasina district) prepared an **INTERMUNICIPAL AGREEMENT, that enables intermunicipal cooperation in the provision of utility service of wastewater collection and treatment in the City of Kruševac and the municipalities of Bruce and Blace. The agreement also regulates the scope and manner of performing public utility services, the management of fixed assets, the method of financing, the rights and duties of employees, as well as other important issues.** Pursuant to this Agreement, the City of Kruševac, through the PUC "Vodovod – Kruševac", will provide wastewater and sludge treatment, and sludge disposal services, namely management and maintenance of the WWTP Brus and WWTP Blace.

Establishment of an institutional framework for the intermunicipal cooperation was foreseen on 6 February 2019 by signing of the Memorandum of Understanding on the Protection and Sustainable Use of Lake Čelije between the City of Kruševac, the municipalities of Bruce, Blace and Aleksandrovac, and later on 27 July 2019 with the Letter of Intent for Sustainable Water Quality of Lake Čelije and treatment of wastewater that gravitates to this water intake for the Rasina District.

Measurement of wastewater flow to be treated at Kruševac WWTP, Brus WWTP and Blace WWTP will be carried out on a continuous basis, and the measured current and cumulative flow data will be automatically recorded using SCADA system and managed by PUC "Vodovod" – Kruševac".

### Objectives of the Agreement:

- » Regional management of wastewater treatment plants in Brus and Blac in a sustainable manner;
- » Improvement of the water quality in the Rasina and Blatašnica rivers and enhanced protection of the water quality of Čelije lake as a source of drinking water supply for the residents of the Rasina District;
- » Compliance with the requirements of the EU "Drinking Water Directive" (98/83/EC) and the EU "Urban Wastewater Treatment Directive" (91/271/EEC);
- » Attaining economic and financial self-sustainability of the municipal wastewater treatment service on the territory of Bruce and Blace and improving the tariff collection system;
- » Fulfilment of the obligations, guidelines and measures foreseen by the Water Management Strategy for the territory of the Republic of Serbia until 2034;
- » Fulfilment of the measures stipulated by the regulations in the water management and environmental protection sector.