

BIOMASS COGENERATION PLANT, Vojnić

LOCATION

The project of the Biomass Cogeneration Plant is located in Municipality of Vojnić, in the southeastern part of Karlovac County, in the heart of the Republic of Croatia, at the intersection of the most important roads connecting Europe with the Adriatic coast (motorways A6 and A1 - Karlovac 25 km). The proximity to Zagreb (54 km), the capital of Croatia and the strongest economic center, its "Franjo Tuđman" airport (80km) and Rijeka (110 km), the largest Croatian seaport, has influenced the development of the County as a large manufacturing area. The county seat is the City of Karlovac.

PROJECT DESCRIPTION

The municipality of Vojnić owns the land plot of 25,371 m² planned for the production of electricity and heat from wood biomass and pellets.

The project involves the construction of a 1000 kW biomass cogeneration plant (maximum dimensions of 42.45 x 24.70 m) along with biomass canopy, a pellet production plant, wheel scales and reception (total net and gross area of all the facilities involved in the project are: net 647.45 m²; gross: 1,276.26 m²). According to estimates from the main project it is expected that 7,200 MWh of electricity from renewable sources will be sent to the grid and 16,800 MWh of heat.

The potential demand for electricity and heat produced in the plant is based on the needs of the local wood industry (the sawmill is located in immediate proximity to the cogeneration plant) for the wood dryer and steamer as well as for the production of pellets within the plant. Heat obtained from the plant could cover the needs of the local authorities for heating public facilities during the heating season and for water heating in the Aquapark.

The municipality of Vojnić aims to replace the existing heating systems (residual fuel oil) on a commercial base with thermal energy in all public institutions, from the building of the municipality, cultural center, kindergarten, elementary school, health center, Red cross, fire station, branch offices of the County and other governmental bodies to utility companies managed by the municipality and other public institutions.

CURRENT STATUS

The building permit for the project is already obtained (valid from April 2019). The estimated value of the project is 7.4 million EUR and as transaction model, the Municipality of Vojnić offers the sale, right to build or lease of land within the scope of the project.

In accordance with the provisions of the Ordinance on quotas for incentivising electricity production from renewable sources and high-efficiency cogeneration (OG, 57/20), incentives are to be granted to d.3. plants „Biomass power plants with installed capacity between 500 kW and 2 MW“, within a public tender for awarding premium tariff. The tender is conducted by the Croatian Energy Market Operator Ltd., and the awarding criteria of the tender are publicly available.

VOJNIĆ

Project Holder

The Municipality of Vojnić

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Estimated value

7.4 million EUR



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