

 Bulgaria

Energy from biomass

Utilizing wood pulp to generate clean electricity

Emission Reductions



83,000t
CO₂ e p.a.

Project Technology



Renewable
Energy – Biomass

Project Standard

Gold Standard[®]

Bulgaria has a diverse electricity mix including renewables, thermal, and nuclear. However, it remains one of the most energy inefficient countries in the EU. Technological challenges and a lack of investments further contribute to the low energy efficiency. Bulgaria is traditionally a net exporter of electricity, exporting about 20% of all that it produces. However, a shrinking market and the EU energy plan push Bulgaria to increase its share in renewable energy production. The European Union’s energy plan focuses on increasing energy efficiency, adopting renewables and decreasing carbon emissions by 2030.

The share of electricity from renewables in Bulgaria has almost doubled in the past 12 years. Following Bulgaria’s presidency of the council of the European Union in 2018, the government is seeking to further increase the share of renewable energy and enhance cross-border integration of energy infrastructure and markets. Private sector projects like this one can help the country to reach its energy targets.

The project is located in Svilosa near Svishtov, on the right bank of the Danube river. The aim is to utilize available waste biomass residues – byproducts of wood processing at the Svilosa pulp processing plant as fuel. In addition to reduced carbon emissions from the fuel switch, the project also reduces methane emissions from the decomposition of wood waste, which had previously been stockpiled on-site.



info



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Supported Sustainable Development Goals





Sustainable Development

Beyond removing carbon emissions, all our climate protection projects generate multiple additional benefits for people and the environment. These projects support the United Nations Sustainable Development Goals.



The project reduces reliance on coal for energy. This is important as coal is a particularly polluting energy source, resulting in respiratory illnesses being the third biggest killer of children under the age of five, according to the WHO.



The project will displace the use of fossil fuels. Biomass is a clean and cheap source of renewable energy. The project reduces air pollution associated with coal based fuels.



Biomass energy generation technology requires specialized expertise. Implementation of such technology comes with the need for trained manpower to operate and maintain the system. The project employs ten people on a full-time and permanent basis.



The project helps Bulgaria to stimulate and commercialize the use of biomass energy technologies and markets. It also acts as a good model for further biomass investments in the country.



Converting biomass to renewable energy sources is part of a responsible adoption of more sustainable energy production and usage technologies. The fuel switch is part of a comprehensive strategy to improve the solid waste management structure.



The project contributes to the mitigation of climate change as it reduces greenhouse gas emissions. It avoids 83,000t CO2 annually. The use of wood pulp as biomass reduces methane emissions which would have been released if the wood were left to decay.



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