

DesuWoW

Issue No.3 | December 2021

BIOMASS



Serbia has recognized the potential and importance of biomass

Biomass has a higher energy potential than solar or wind energy, it was ordered from the Scientific and Investment Conference SEE ENERGY - Connect & Supply III. The importance of the use of biomass in Serbia is recognized - agricultural and wood biomass are increasingly used as a source of energy. The Ministry of Mining and Energy is currently



working on a series of boiler replacement interventions in numerous heating plants across Serbia.

That will contribute to the fact that renewable energy sources in the district heating system, in addition to heat pumps and geothermal, also use biomass. By using biomass, it already reduces the emission of carbon dioxide, sulfur and other harmful substances, as well as the amount of ash that is disposed of in landfills every year, which would contribute to the improvement of the state of the environment.

The process of the energy transition, started by the Government of Serbia, its firm commitment and the Law on the Use of Renewable Energy Sources (RES) have contributed to the recognition of agricultural and wood biomass as a significant energy source. If we take into account the available quantities, possibilities and advantages of agricultural and wood biomass for bioenergy production, we are optimistic about the coming years. With a clear strategy and precisely defined measures, we could become not only a significant consumer, but also an energy producer in the coming period.



Step by step

The new biomass heating plant was put into operation in Priboj (a town in Serbia). The goal of the state is to increase the energy efficiency of heating plants and the use of fuels that do not endanger the environment. The ecological picture will be different from now on, which means more than 90 percent less sulfur dioxide and approximately 90 percent less carbon dioxide, which is important for a city that has had a problem with air quality for years.



Niš Heating Plant is looking for a private partner for biomass heating

The project of public-private partnership by which three boiler rooms in Nis would switch from fuel oil and heating oil to biomass will be presented to Nis councilors, and if they approve it, Nis City Heating Plant will be able to announce a public procurement for a private partner. It is anticipated that the partnership will last for 30 years, it is estimated that about 2.4 million euros will be needed for the investment, and the heating plant explains that this project would bring savings in addition to cleaner air.

By replacing the existing fuel oil with new biomass fuel (wood chips) in the production of thermal energy in the amount of about 54,300 MWh per year, savings are achieved for the purchase of energy in the amount of about 90,132,558 dinars (766,562 euros) taking into account current energy prices



DesuWoW

Issue No.4 | January 2022

BIOMASS



The Christmas trees can save the planet

Do you know that you can recycle the Christmas tree and in that way help the production of important chemicals, and at the same time reduce the emissions of harmful gases?

Pine needles can provide raw materials for creating new products, such as sweeteners and dyes.



It is estimated that seven million trees end up in a landfill in Great Britain every year.

Biomass is a potential alternative source of raw materials for the chemical industry and we should think in that direction. It can also be used in the production of cosmetics such as perfumes.

For example, some of the substances found in pine needles are the active ingredient in perfumes.

In recent years, activists have increasingly called for the use and disposal of plastics to be reduced, and some think that this effort is worthwhile.

It is estimated that up to eight million natural Christmas trees are bought in Great Britain every year.

Unfortunately, most - about seven million of them - ended up in the landfill shortly after the holidays.



If we know that discarded trees can be used for the chemical industry, it would be economically reasonable to send them to bio-refineries.



There is a huge environmental problem of another kind in Serbia - every December, trees for Christmas trees are illegally cut down.

Unplanned Christmas tree felling is a kind of environmental terrorism, because, when everything is added up, hectares of forests are destroyed due to the New Year's holidays.



Festive dinner

During the holidays more food is prepared than usual. although we are aware of the consequences, we often contribute to the creation of a greenhouse with our daily actions.

If food would be disposed of in special places for waste, it would be sent from there to fermentation plants. Fermentation releases methane gas, which is converted into biogas by purification. Biogas is then fed into a generator to produce electricity.

The United Nations estimates that about a third of food products worldwide end up as waste. Waste food, in addition to failing to feed millions of hungry people in the world, contributes to the emission of harmful gases and affects climate change. Agriculture and forestry produce almost a quarter of the world's emissions, which leads to the greenhouse effect.

