

BIOECONOMY

What is the problem of our current economy?

In our current economic model, we depend on fossil raw materials to produce our food, fuel, clothes, medicine, and many more. We know that they are **not renewable** resources, and harm our environment.



What is bioeconomy?

According to European Commission **bioeconomy** is "encompassing the sustainable production of renewable resources from land, fisheries and aquaculture environments and their conversion into food, feed, fiber bio-based products and bio-energy as well as the related public goods".

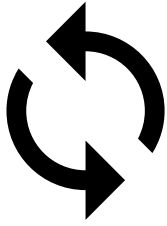
How is the bioeconomic model?

Bioeconomy aims to use **renewable biological resources** to produce food, energy, and industrial goods. Moreover, with this new economic model, tons of waste is not left behind but added back to the production cycle. In the bioeconomic model, biomass is used to generate bioenergy and bioproducts.

Biomass

Bioenergy

Bioproducts



Is bioeconomy sustainable?

Bioeconomy is a new model for our economy and industry to be more sustainable and the goal of the bioeconomic model is to have a circular economy.



What are the challenges of bioeconomy?

Although bioeconomy can be a sustainable alternative to our current economic model, there are certain challenges that come along with it.

- Transportation of bioresources can be a big challenge since more material is required to produce the same amount of energy that would be produced from fossil fuels.
- To produce some goods, a larger land area is required which can cause land degradation.
- The price of biobased products can also be challenging since people can reject using them because of their high prices.



However, bioeconomy is a newly developing model and innovative solutions can be used to solve all these issues.