

# Environmental sustainability of biofuels in energy transition for a Green Economy in Ukraine

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#### **Energy transition for a Green Economy**

UNEP defines the green economy as one that results in improved human well-being and social equity, while significantly reducing environmental risks and scarcities. It is low carbon, resource-efficient, and socially inclusive.

Protects biodiversity and ecosystems

Recognizes natural capital

Delivers poverty reduction, social protection and access to essential services



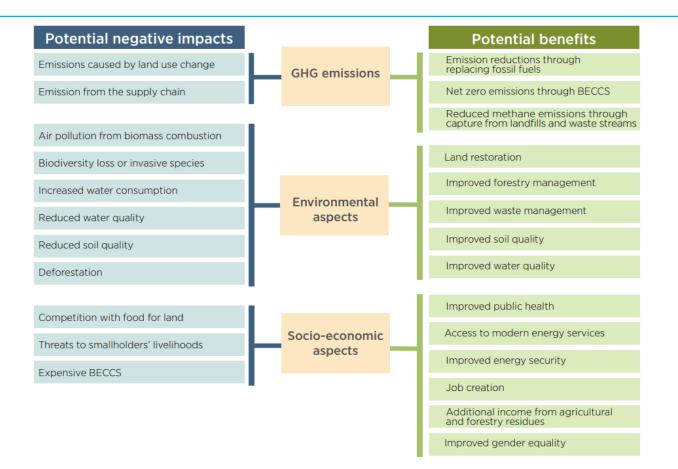
## **Bioenergy and Sustainable Development Goals**

If applied correctly, bioenergy development could contribute to achieving the SDGs





## Bioenergy sustainability: Potential impacts of biofuel production





#### The Case of Ukraine: sustainable agricultural biomass

Biofuel production from excess amounts of food/feedstock is a relevant option in Ukraine case due to large areas of agricultural land.

Additionally, there are about 4 million hectares of unused agricultural land. It can be partly engaged in growing energy crops for production of all types of biofuels – solid, liquid, and gaseous.

#### **Recommendations:**

- > To introduce mandatory criteria of sustainability in the production of biofuels into Ukrainian legislation.
- > To harmonize national standards with international standards.
- To trigger a multi-stakeholder dialogue: government, international development/financial institutions, farmers & project developers.



#### UN cooperation in Ukraine: Next phase

#### **UNEP's role in the next phase of a bioenergy project:**

- Development of energy biomass in territories unsuitable for the agricultural cycle through:
- Assessing bioenergy potential of temporarily un-arable lands
- Identifying priority locations for bioenergy development and main barriers in transition to a green economy
- **Mobilizing sustainable agro-biomass** for energy supply through analysis of soil contamination and phytoremediation potential.



# Thank you



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