

# How to make Biofuels Sustainable?

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# I. Biofuels as part of a Sustainable Transport Strategy

Overall Consumption of liquid fuels: The use of liquid fuels have to be decreased significantly

1. Higher Efficiency in use of fuels
3. New technologies have to be applied, also to use biomass more efficient, e.g. Plug-in Hybrid Electric Cars, Electrification of transport
5. Modal switch
7. Intelligent concepts of logistics, land use and urban planing, communication





# I. Biofuels: A meaningful Sustainability Certification for Bioenergy

- Sustainability of bioenergy comes down to sustainability of agriculture & forestry and GHG performances.
- What raw material is produced, where and how?
  - protection of HCV forests, permanent grasslands, floodplains etc., water availability, water pollution,, soil erosion, biodiversity, air pollution, access to land, social issues

Need for protected areas, environmental legislation, voluntary certification etc.

But can we do something on top for bioenergy?

- Measure GHG performance of bioenergy and link incentives to GHG performance
- Minimise negative envir & social impacts and maximise positive impacts of bioenergy in general





# The Renewable Energy Directive

- The Commissions proposal on the “Environmental sustainability criteria for biofuels and other bioliquids” is a starting point, but scheme needs further improvement

## WWF recommend:

- Certification of all raw material used for bioenergy (heat, power, biofuels)
- Environmental sustainability does not cover the whole problem: social aspects need to be included.
- Include incentives for all biofuels to ensure a better performance of GHG savings





# The Renewable Energies Directive

## WWF recommend:

- Include High Conservation Value Approach, to protect all high nature value areas or find the appropriate management method.
- Clarification on definitions like “forests undisturbed by significant human activities” and “pristine peatland” is needed.
- Include a list of concrete environmental and social criteria, to ensure good environmental management for all crops
- Define the benchmarking process of voluntary systems and bilateral and multilateral agreements and make it transparent.





# I. The Way Forward for Sustainability of Biofuels

1. To use biofuels could be one option to make transport more sustainable, there are others, which needs to be supported.
2. Establish a meaningful certification scheme in Europe on environmental and social criteria
3. Certification of biofuels could help to ensure sustainability of biofuels, but could not solve all problems, raised by biofuels, accompanying measures are needed
  - How could we cover the impacts of indirect land use change?
  - How can we ensure that plantations are developed on “idle land” and do not disturb any social or environmental values?
  - What is an acceptable maximum capacity for sustainable production of bioenergy? Need for better land-use planning and access to land for people.



# Thank you!

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