



# Sustainability criteria for biofuels – EU state of play

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and Lifecycle analysis  
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# Presentation outline

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- **Institutional context**

- *Two proposals from the Commission: revision of fuel quality directive, directive on the promotion of renewable energy sources*

- **Sustainability criteria for biofuels**

- *Criteria laid down in the Commission's proposal, GHG methodology*



# Institutional context



# The review of the fuel quality directive

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- **Jan 07: revision proposal by European Commission. Fuel suppliers to the EU must:**
  - *Report on lifecycle GHG emissions (2009)*
  - *Reduce emissions 1%/yr (10MtCO<sub>2</sub>/yr) 2011-2020*
- **Part of an integrated approach on transport**
- **Technology neutral... but biofuels expected to play a role**
- **Incentive for better-performing biofuels**



# The review of the fuel quality directive

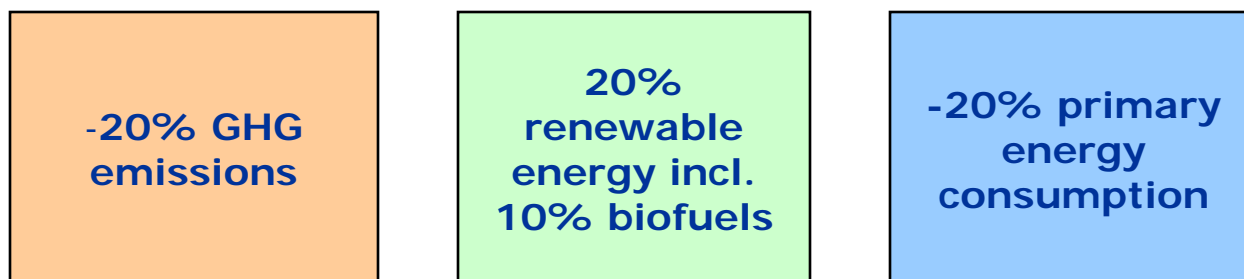
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*EU Parliament and Council stressed the necessity of having sustainability criteria for biofuels in the Fuel Quality Directive*



# Biofuels in the Climate and Energy Package

- **10 Jan 07: Commission's proposal**



by 2020

- **Endorsed by Heads of State in March 2007**
- **Biofuels target endorsed under conditions**



## European Commission proposals of January 2008

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- **Revision of EU Emissions trading scheme (ETS)**
- **New national targets for non-ETS emission reductions**
- **Framework for CCS development**
- **Guidelines on environmental state aid**
- **Energy efficiency**
- **Directive on the promotion of renewable energy**



# The proposed directive on renewable energy

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- **2020: 10% renewable energy in transport for each EU state**
- **Sustainability criteria for biofuels to:**
  - *Count towards the 10% target/National targets*
  - *Receive financial support*
- **Imports and domestic production treated equally**
- **Criteria also apply to « bioliquids », extension to biomass to be analysed by 2010**





## State of play – May 08

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- Clear need for sustainability criteria for both directives
- Ad hoc group created in Council
- Ongoing work at European Parliament



# Sustainability criteria for biofuels



## Sustainability criteria proposed by the Commission

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- **Greenhouse gas savings: min 35%**
  - *Calculated with GHG methodology*
  - *Default or actual values may be used*
  - *Adaption period for existing plants*
- **No conversion of high carbon stock areas:**
  - *Wetlands*
  - *Continuously forested areas*



## Sustainability criteria proposed by the Commission

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- **Biodiversity: no-go areas**
  - *Undisturbed forests*
  - *Protected areas (unless raw material taken harmlessly)*
  - *Highly biodiverse grasslands*
- **Environmental requirements for agriculture:**
  - *All EU biofuels must respect « cross compliance » rules*



## Verification rules

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- **Verification of compliance:**
  - *Primary responsibility of Member State: require economic operators to ensure “adequate standard of independent auditing”*
  - *« Mass balance » for tracking consignments*
  - *Voluntary certification schemes, international agreements, schemes to measure GHG emissions, can be **accredited** by the Commission as giving reliable proofs of compliance*
  - *If so, all Member States have to accept these certificates as proof*



# Monitoring and reporting

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- **Reporting by Member States every 2 years**
- **Reporting by Commission every 2 years on:**
  - *Land use changes*
  - *Commodity price changes / availability of foodstuff*
  - *Cost/benefit of different biofuels, import policy*
  - *Sustainability and development issues*
- **Corrective action to be taken if appropriate**



# Methodology for GHG calculation

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- Lifecycle, including land use change
- Comparison with petrol/diesel emissions
- Applies to biofuels/other fuels/bioliquids
- Based on work conducted by JRC/EUCAR/CONCAWE
- Energy allocation for co-products
- Default values



**Thank you for your attention**

**Proposal for a revision of the fuel quality directive:**

<http://ec.europa.eu/environment/air/transport/fuel.htm>

**Proposal for a directive on renewable energy sources:**

[http://ec.europa.eu/energy/climate\\_actions/index\\_en.htm](http://ec.europa.eu/energy/climate_actions/index_en.htm)