

Actual status of discussion:

- *Directive on energy from renewable sources*
- *Amendment of the directive on fuel quality*



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Dr. Heinz Bach

**Federal Ministry of Agriculture, Forestry, Environment and Water Management**

**Div. V/5 – Transport, Mobility, Land Management, Noise**



# Main issues of proposals

- **Target for the use of biofuels in transport 2020**
- **Targets for life cycle greenhouse gas emissions**
- Sustainability criteria

# Biofuel target in transport 2020



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## Proposal RES-Directive: Article 3, paragraph 3:

- the share of energy from renewable sources in all forms of transport in 2020 is at least 10% of final consumption
- the contribution from electricity produced by renewable sources and consumed in all types of electric vehicles shall be considered to be [three] times the energy content of the renewable electricity input

# Biofuel target in transport 2020



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## Proposal RES Directive: Article 3, paragraph 3:

- Calculating total energy consumed in transport only petrol, diesel and biofuels used in land transport and electricity shall be taken into account



# Biofuel target in transport 2020

## European Parliament:

- **Target of 4% in 2015**
  - 20-25% should be met by electricity or hydrogen or fuel from feedstock with negative emissions from direct or indirect land use change (e.g.: waste, residues, ligno cellulosic,...).
- **Target of 7-10% in 2020, combined with a review of this target (in 2012 or 2015)**
  - 40-45% should be met by electricity or hydrogen...



# Targets greenhouse gas emissions

## Proposal RES-Directive: Article 15, paragraph 2:

- The greenhouse gas emission saving from the use of biofuels and other bioliquids taken shall be at least **35%** (from 1 April 2013 for installations in operation)
- With effect from **2017**, the greenhouse gas emission saving from the use of biofuels and other bioliquids shall be at least **50%**



# Targets greenhouse gas emissions

## European Parliament:

- **50%** greenhouse gas emission saving from the use of biofuels and other bioliquids (for installations in operation **35%** until **31.12.2010**)
- **60%** from 1 January 2015,



# Targets greenhouse gas emissions

## Proposal RES-Directive (Ad hoc working group sustainability criteria): Article 17, Annex VII

### - Annex VII C Methodology

- Greenhouse gas emissions from the production and use of transport fuels, biofuels and other bioliquids shall be calculated as:

$$E = e_{ec} + e_l + e_p + e_{td} + e_u - e_{ccs} - e_{ccr} - e_{ee},$$





# Targets greenhouse gas emissions

## Proposal RES-Directive (Ad hoc working group sustainability criteria): Article 17, Annex VII

$$E = e_{ec} + e_l + e_p + e_{td} + e_u - e_{ccs} - e_{ccr} - e_{ee},$$

$E$  = total emissions from the use of the fuel;

$e_{ec}$  = emissions from the extraction or cultivation of raw materials;

$e_l$  = annualised emissions from carbon stock changes caused by land use change;

$e_p$  = emissions from processing;

$e_{td}$  = emissions from transport and distribution;

$e_u$  = emissions from the fuel in use;

$e_{ccs}$  = emission savings from carbon capture and sequestration;

$e_{ccr}$  = emission savings from carbon capture and replacement; and

$e_{ee}$  = emission savings from excess electricity from cogeneration.



# Targets greenhouse gas emissions

## Proposal FQ-Directive: Article 7a, paragraph 2:

- From 1 January [2011], Member States shall require suppliers to reduce life cycle greenhouse gas emissions per unit of energy from those fuels.
- The reduction shall equal by 2015 at least [x/2%] compared to the EU-average level of fossil fuel emissions reported in 2010. The reduction shall equal by 2020 at least [x%] compared to the EU-average level of fossil fuel emissions reported in 2010.



# Targets greenhouse gas emissions

## Proposal FQ-Directive: Article 7a, paragraph 2:

- GHG savings “Well to Tank”: 1-3%
- GHG savings “Tank to Wheel”: 5% - according to 10% target RES-Directive

**→ overall target for GHG savings 6-8%**



## Further steps

- Presidency, EP and EK start with negotiations on the proposals soon

**→ first reading agreement should be achieved**

- Further work has to be done as e.g. establishing detailed definitions and technical specifications required for the elements for calculating GHG emissions.