



Biomass for Energy: overview of National Renewable Energy Action Plans

Conference on sustainable biomass for European Energy

Directorate-General
for Energy



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- **Introduction**

- Biomass in NREAPs: provisional findings

- Next steps

● EU Renewable Energy Directive (2009)

- Part of the EU climate and energy package
- A single, comprehensive Directive to achieve 20% renewable energy in the EU in 2020
 - » Combat climate change
 - » Security of energy supply
 - » Green jobs and innovation
- Mandatory targets
- Specific 10% target for renewable energy in transport
 - » Increased use of biofuels
- Biofuel sustainability scheme

● Biomass role in the EU energy policy

- Final energy consumption from biomass: ≈ 81 Mtoe (Eurostat 2008)
 - ≈ 63 Mtoe in H&C (8 Mtoe in district heating)
 - ≈ 8 Mtoe in Electricity
 - ≈ 10 Mtoe in Transports
- $\approx 2/3$ of EU final renewable energy consumption
- $\approx 6.7\%$ of EU final energy consumption
- According to EC projections, biomass would contribute to at least 50% of the RES 20% target by 2020

● Directive implementation

● Member States to:

» **Transpose** into national legislation by 5 December 2010

» Draw up **national renewable energy action plans (NREAPs)** by 30 June 2010

- Binding template published by the Commission and to be respected by MS:

<http://eurlex.europa.eu/LexUriServ/LexUriServ.do?uri=CELEX:32009D0548:EN:NOT>

- Facilitate monitoring of the Directive and provides stability for investment

- To date, **23** plans have been received

- The Commission is publishing the plans as soon as these are received

- http://ec.europa.eu/energy/renewables/transparency_platform/transparency_platform_en.htm



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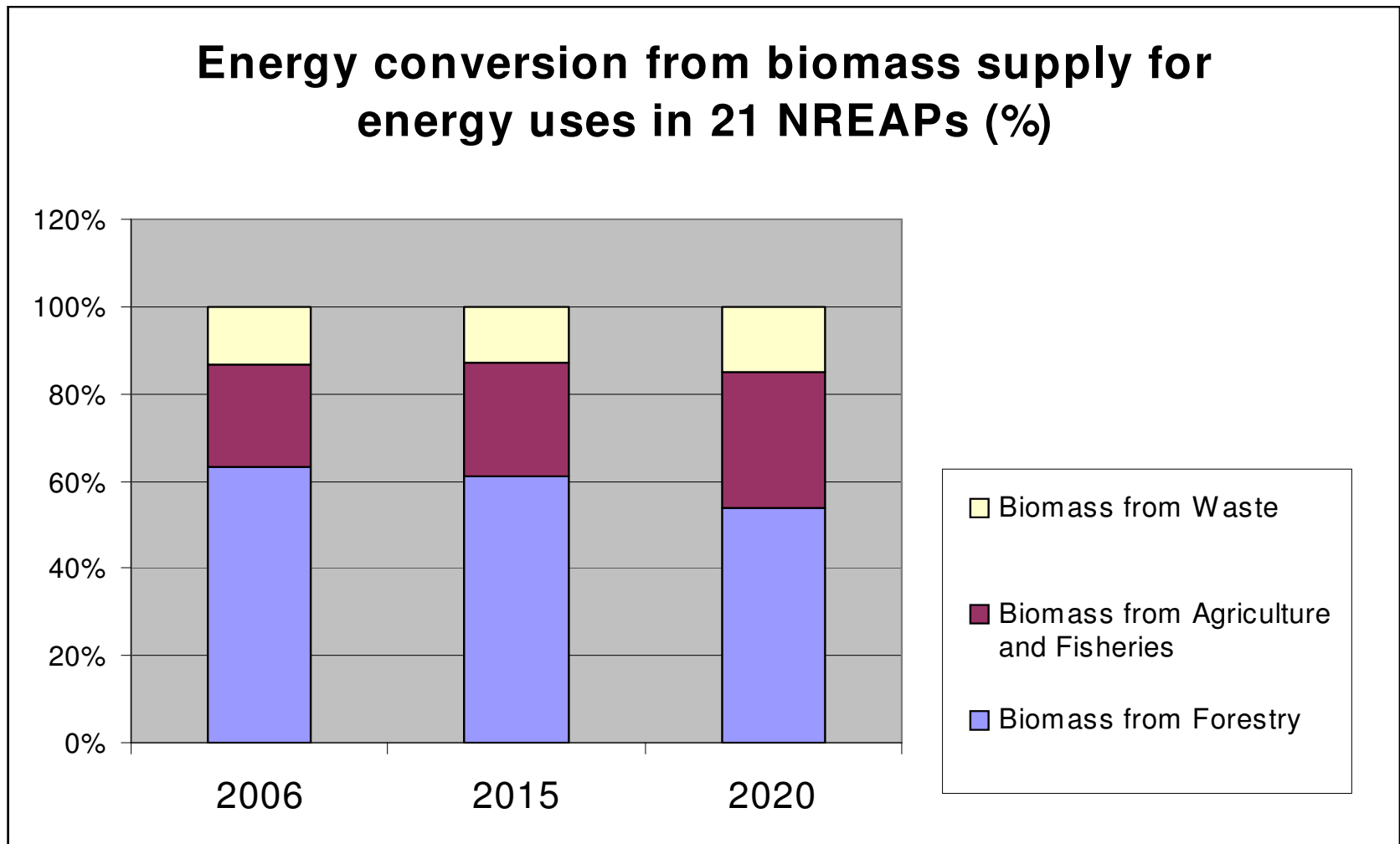
● Biomass in NREAPs

- According 23 NREAPs received:
 - Biomass would contribute to more than 10% of the total energy consumption in 2020
 - Biomass would contribute to more than 50% of RES energy consumption in 2020
 - Biomass would contribute to at least half of additional effort to reach the 20% target
- EC projections are confirmed by the provisional results of the analysis

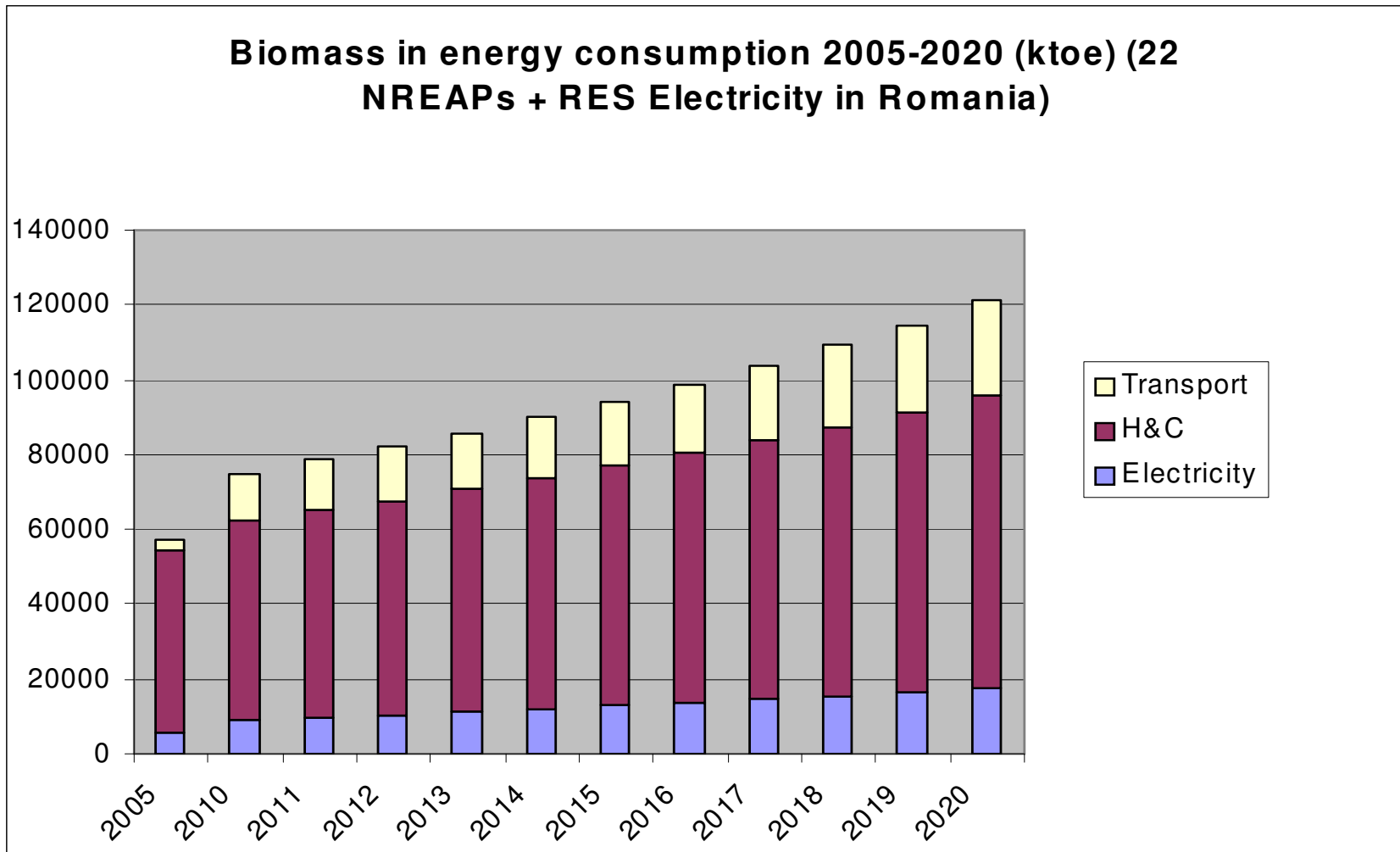
● Biomass supply (2006-2015-2020)

- Overall significant increase from the 3 main sources
- According to the analysis of 21 NREAPs:
 - » Biomass from forestry would increase by one third
 - » Biomass from agriculture and fisheries would double
 - » Biomass from waste would increase by two thirds

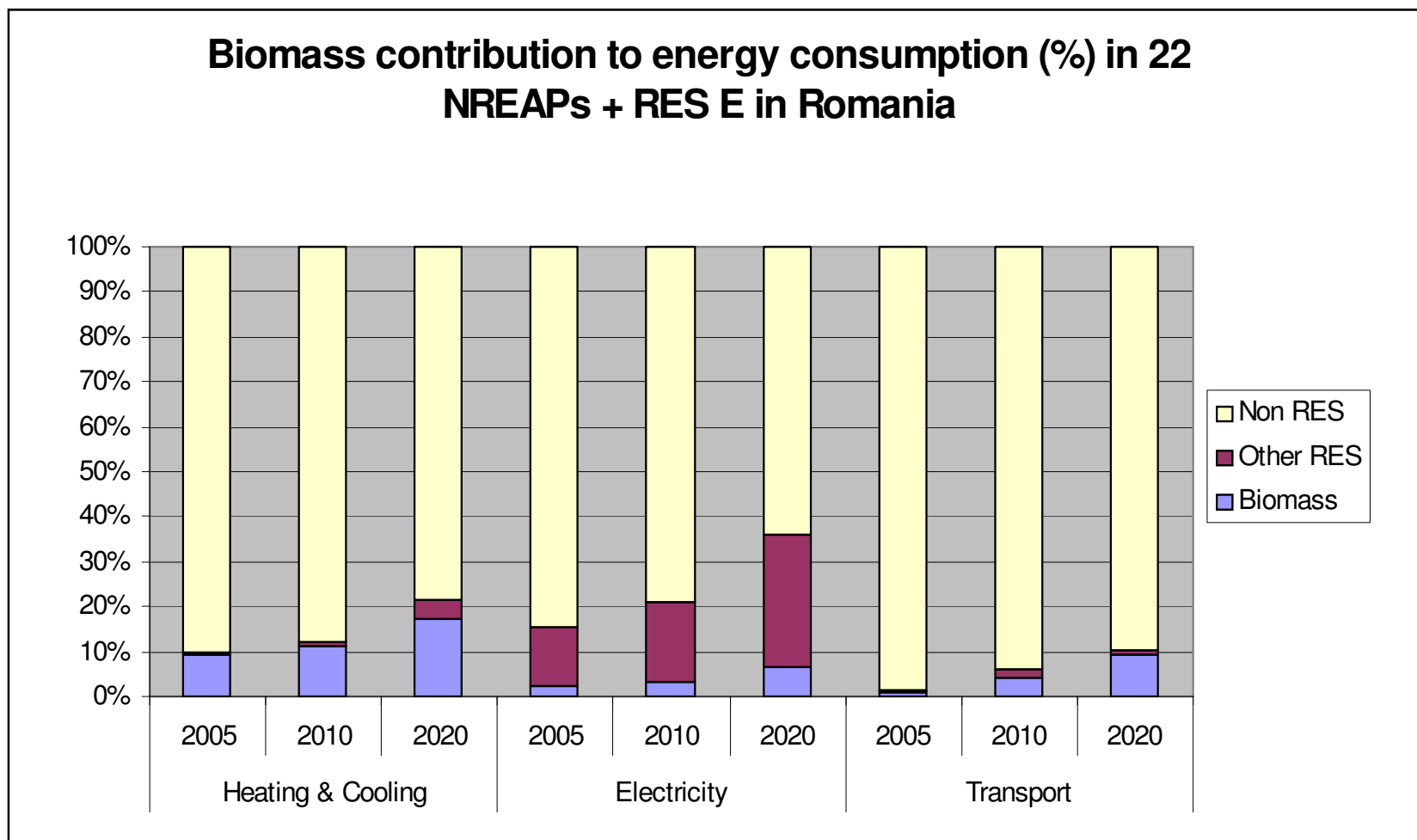
Biomass supply



Final energy consumption from biomass



Final energy consumption from biomass



● **Biomass availability**

- Several studies dedicated to EU biomass potential for energy uses
- EEA study: 230 Mtoe available in 2020
- BEE project: comparison of results
- EUwood project: EU wood resource balance (potential / demand)



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● Evaluation of the NREAPs

- Evaluation of NREAPs carried out internally by the Commission services
- Basis of the evaluation: RES Directive and NREAP template
- Commission to clarify certain issues with MS: data, policy measures etc.

● Questions behind the NREAPs evaluation results (biomass part)

- Do Member States have measures in place/planned for biomass to play the desired role?
- Is action on biomass availability/sustainability needed at EU level?
- Results of the evaluation will be used as an input for the next biomass sustainability report (December 2011)

● **Report COM(2010)11 (February 2010)**

- → No need for a binding EU scheme
- National biomass sustainability schemes can be developed – report recommends criteria for them
- Commission to revisit the issue by the end of 2011

- » Report available online:
http://ec.europa.eu/energy/renewables/bioenergy/sustainability_criteria_en.htm

● Report COM(2010)11 (February 2010)

● Part 4, paragraph 2:

« The Commission will report by 31st December 2011 on whether national schemes have sufficiently and appropriately addressed the sustainability related to the use of biomass from inside and outside the EU, whether these schemes have led to barriers to trade and barriers to the development of the bioenergy sector. It will, inter alia, consider if additional measures, such as common sustainability criteria at EU level would be appropriate »

● Study on benchmarking biomass sustainability criteria for energy purposes

- Study launched in September (duration: 15 months)
- Tender specifications:
http://ec.europa.eu/dgs/energy/tenders/2010_en.htm
- **Objective:** to monitor and report on national and regional schemes to promote sustainable uses of biomass, and benchmark their compatibility with the EU internal market and the promotion of renewable energy.
- Results will be used as an input for the next biomass sustainability report (December 2011)

● Biomass sustainability report Dec 2011

- Will analyse, among others:
 - » the extent to which recent developments in the bio-energy sector reflect significant changes compared to the conclusions drawn in the first sustainability report (in terms of imports flows, types of biomass used for energy etc...)
 - » the extent to which other new policy developments related to the sustainable use of biomass have contributed to the sustainable production and consumption of biomass in the EU
 - » the implementation of sustainability criteria in each Member State and their impact on biomass markets and trade.



Thank you for your attention

http://ec.europa.eu/energy/renewables/index_en.htm

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