



EUSDR Priority Area 2 **To encourage more sustainable energy**

Bratislava, 30.11.2016

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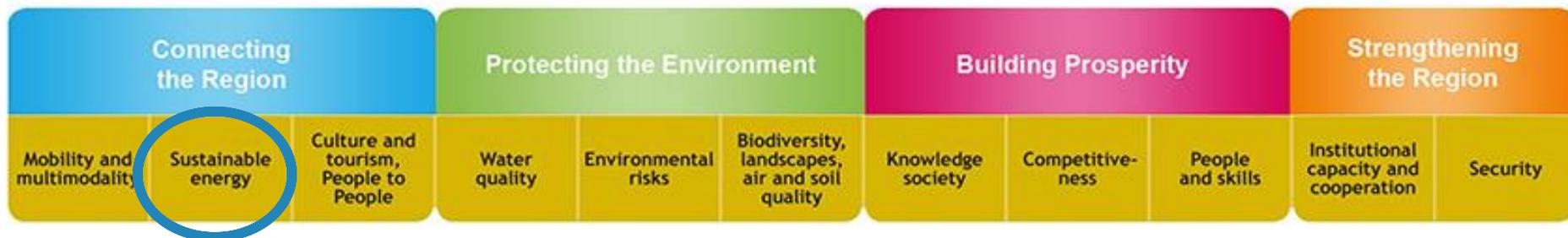
Danube Region – A heterogeneous macroregion

Key features:

- ▶ 9 EU + 5 non-EU countries;
- ▶ < 100 million inhabitants;
- ▶ 1 / 5 of EU total area;
- ▶ significant regional disparities



EUSDR – EU Strategy for the Danube Region



PA2:

- ▶ Jointly coordinated by Hungary (Ministry of Foreign Affairs and Trade) and the Czech Republic (Office of the Government)

PA2 endorsed new targets and actions

- ▶ To help to achieve the national targets based on the Europe 2030 climate and energy targets
- ▶ To remove existing bottlenecks in energy to fulfil the goals of the Energy Union within the Danube Region
- ▶ To better interconnect regions by joint activities with relevant initiatives and institutions

Danube Region Biomass Action Plan

- ▶ All DRS countries have given feedback;
- ▶ A total of 61 recommendations;
- ▶ Joint Declaration on biomass sustainability in June 2013.



Results of the comments

- Full consensus on 38 recommendations ~ 62%;
- Almost full consensus on 16 recommendations (1 or 2 countries disagreed) ~ 26%;
- Partial consensus on 3 recommendations (more than 10 countries agreed) ~ 5%;
- Disagreements only on 4 recommendations (less than 10 countries agreed) ~ 7%.



„...New EU-wide obligatory sustainability criteria would a unavoidably create additional administration and costs especially for the EU producers, without any additional benefit for the environment, thus creating market distortion and disadvantage in competition for the producers of the Member States...“

Danube Region Biomass Action Plan

DRBAP – build on the results of the 4biomass project

1) December 2012 – approval by the PA2 Steering Group, composed of the representatives from the responsible ministries of the DRS countries

2) Information collection and study compilation

- ÉMI Non-Profit LLC – chosen as an advisor (experience with the 4biomass)
- Consultation on the recommendations of the 4biomass project
- Desk research and direct information collection
- Finalisation of the Danube Region Biomass Action Plan

3) Development of a best-practice project inventory

DRBAP – finalized in February 2014

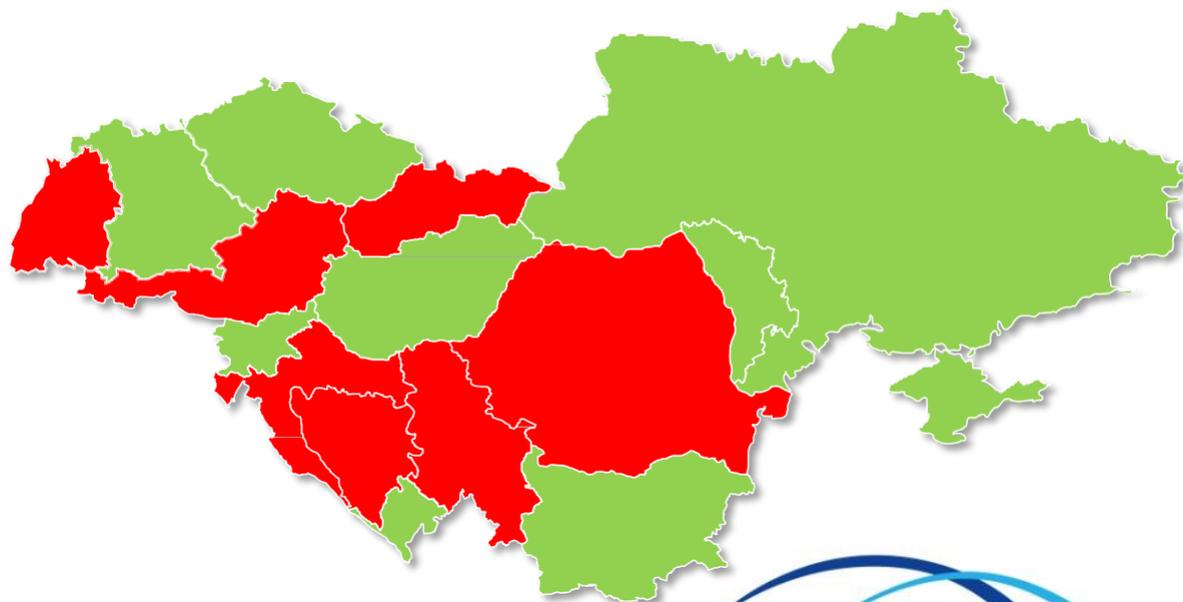
Challenges faced with data collection

▶ Information sources

- 4biomass – Transnational Action Plan;
- EU policies (EU climate and energy package, RES Directive etc.);
- Collected documents and data: National Renewable Energy Action Plans and other national policy documents, Eurostat, EurObserv'ER, JRC, Energy Community, etc.;
- Data request sheets.

▶ Data request sheets

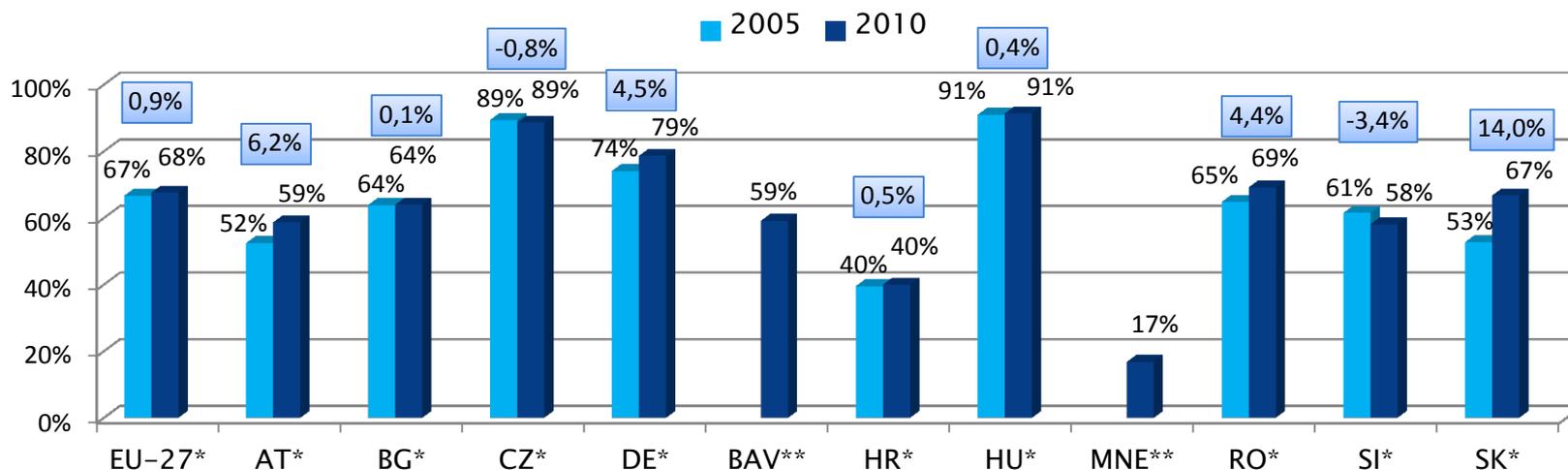
- Received from: BG, CZ, BAV-DE, HU, MD, MNE, SLO, UA → 8/15 ~ 53%
- Lessons learned
 - access to reliable data is difficult;
 - existing data are heterogeneous;
 - internet sources had to be used more extensively than planned.



Conclusions and main findings

➤ General

- There is lack of available biomass related data in the Danube Region
 - lack of specific and unique biomass related data
- Biomass has the greatest significance among renewable energy sources in the Danube Region



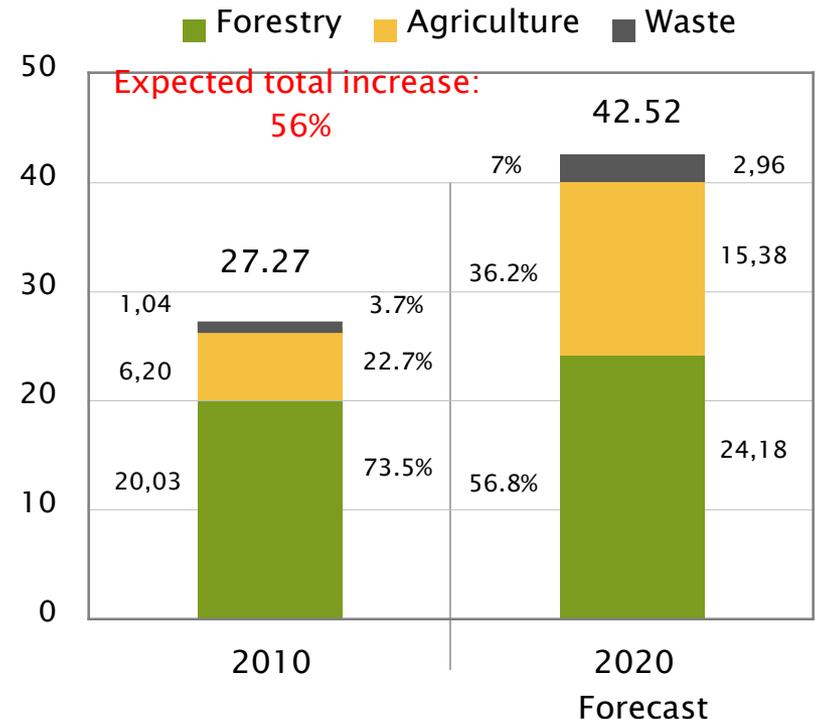
Primary energy production of biomass & renewable wastes in % of primary production of renewable energy

Sources: *Eurostat – Codes: ten00081, ten00082, **Country data sheets.
Data not available at all for BIH, B-W, MD, SRB, UA and data not available for BAV and MNE regarding year 2005

Conclusions and main findings

➤ Source of biomass

- ▶ Forestry sector is the main biomass supplier and is going to keep its dominance to 2020
- ▶ Significance of the agriculture and waste sector will increase rapidly to 2020
- ▶ Biomass supply is continuously increasing



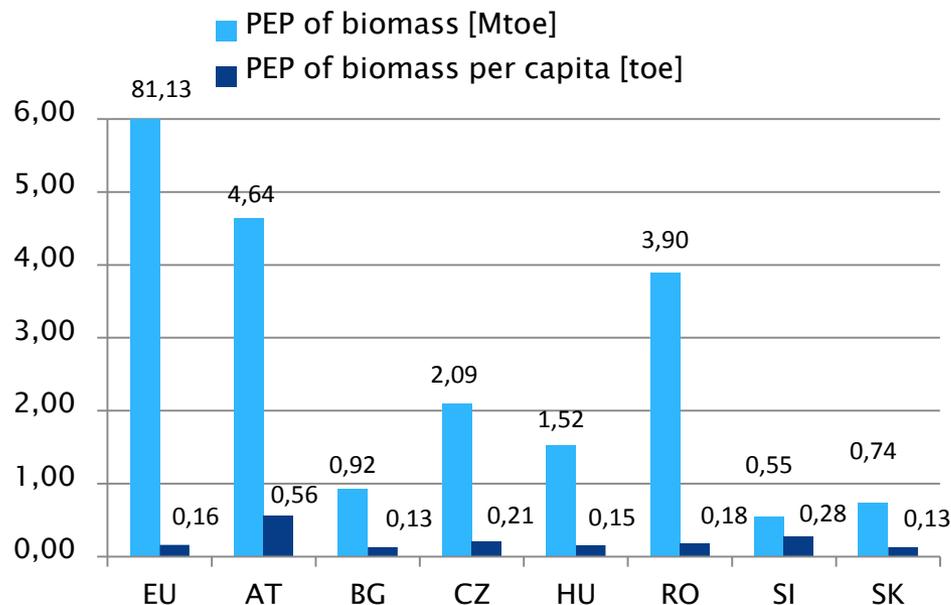
Biomass supply by source [Mtoe]

In terms of biomass supply in 2010 and in 2020, data are only available for 10 participant states of the EUSDR: AT, BG, HR, CZ, DE, HU, RO, SRB, SI and SK.

Conclusions and main findings

➤ Energy production from biomass

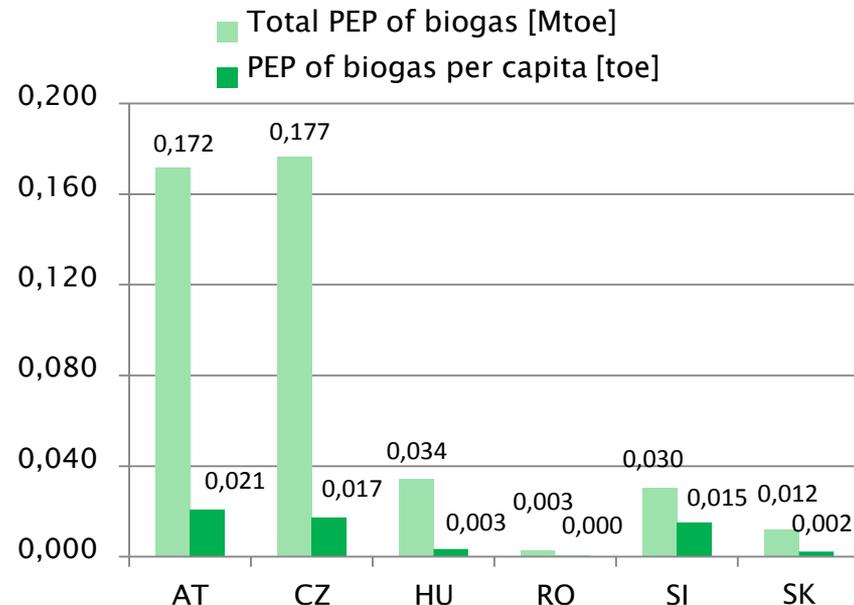
- Bioenergy production is dominated by solid biomass
- The Danube Region has remarkable producers in all bioenergy areas



DE: PEP of biomass: 12.23 Mtoe; 0,15 toe per capita

Source: EurObserv'ER, 2012. Solid Biomass Biometer, 2012; Central Intelligence Agency. The World Factbook.

No available data for BAV, BIH, B-W, HR, MD, MNE, SRB and UA.



DE: Total PEP of biogas: 6.67 Mtoe; 0.082 toe/km²

EU: Total PEP of biogas: 10.895 Mtoe; 0.022 toe/km²

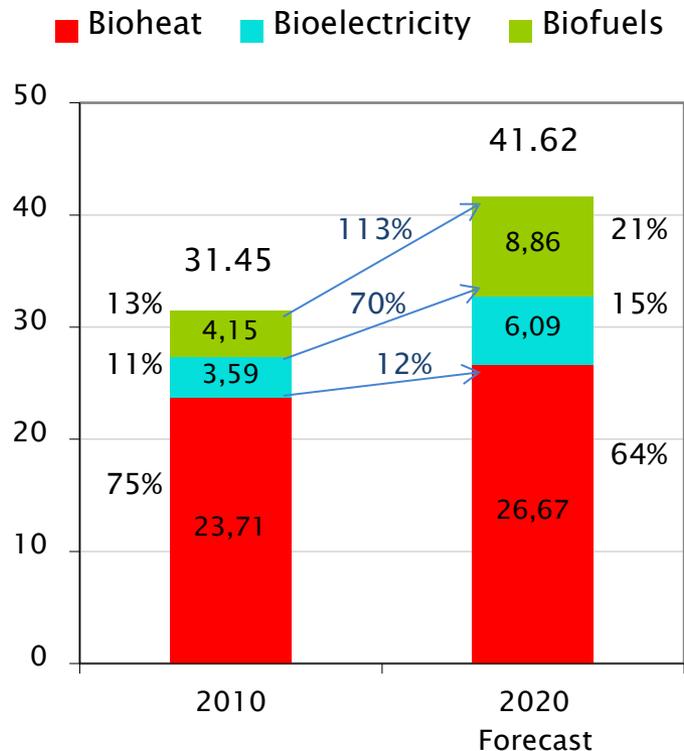
Source: EurObserv'ER, 2012. 12th EurObserv'ER Report - The state of renewable energies in Europe.

No data available for BAV, BIH, B-W, BG, HR, MD, MNE, SRB and UA.

Conclusions and main findings

➤ Energy consumption from biomass

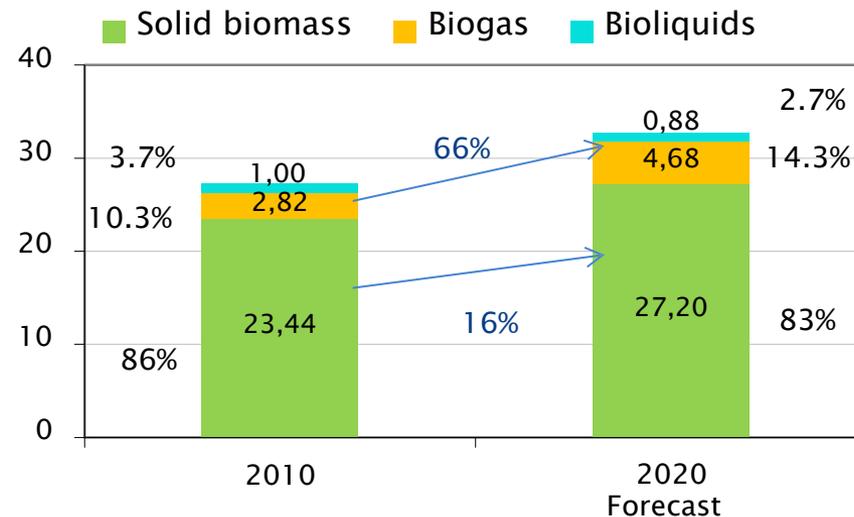
Bioenergy consumption [Mtoe]



- Most bioenergy is consumed in the form of heat and no change is expected to 2020

In terms of bioenergy consumption in 2010 and in 2020, data are only available for 10 member states of the EUSDR: AT, BG, HR, CZ, DE, HU, RO, SRB, SI and SK.

Consumption of bioheat and bioelectricity by bioenergy carriers [Mtoe]

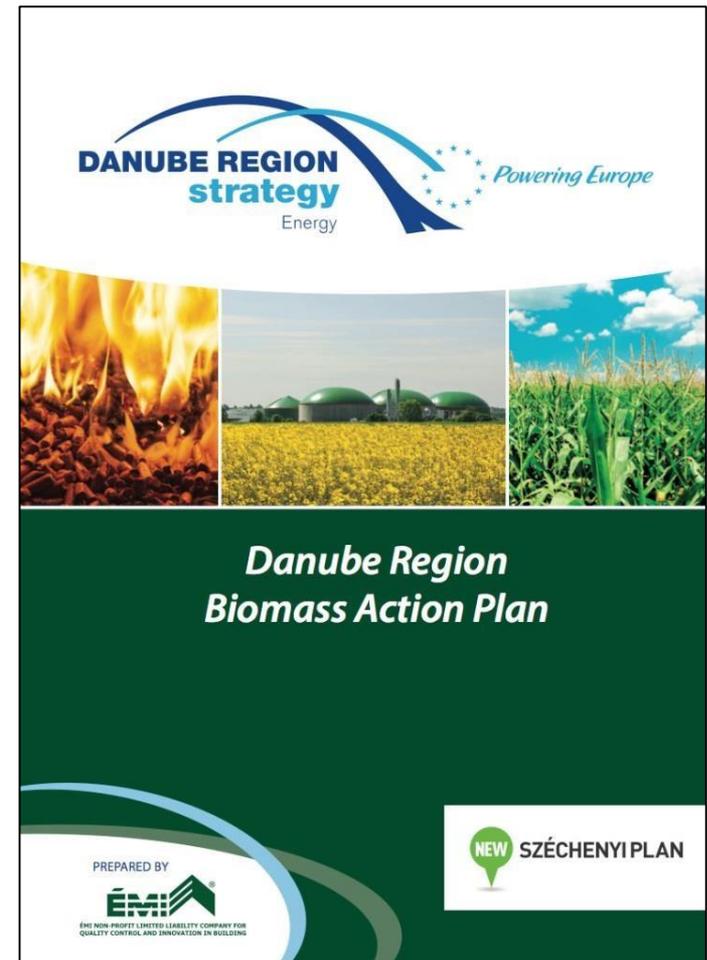


- The majority of consumed energy derives from solid biomass and no change is expected to 2020

In terms of bioheat and bioelectricity consumption in 2010 and in 2020, data are only available for 10 participant states of the EUSDR: AT, BG, HR, CZ, DE, HU, RO, SRB, SI and SK.

The structure of the study finalised in February 2014

- ▶ Executive summary
- ▶ Introduction
- ▶ Biomass policy framework
 - EU policy framework
 - Joint declaration on biomass sustainability
- ▶ Assessment of the countries of the EUSDR
 - General profiles
 - Policy assessment
- ▶ Regional analysis
 - Renewable energy profiles
 - Biomass in detail
- ▶ Conclusions & main findings
- ▶ Recommendations
 - 4biomass
 - Countries of the EUSDR
 - Authors



All information on activities:
www.danube-energy.eu

Thank you for your attention!
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