AUSTRIAN ENERGY AGENCY

Austrian Energy Agency

Interactions between TD und BU methods and double counting

Second plenary meeting, CA ESD II
Copenhagen, 28.03.2012

AUSTRIAN ENERGY AGENCY

Top-down vs Bottom-up

Background

- Bottom-up calculations result in high savings for buildings methods
- Comparing real energy consumption (according to energy balances) and calculated energy consumption (according to bottom-up methods) a correction factor of 0,75 was applied to all bottom-up savings from buildings methods
- These corrected bottom-up savings were compared to top-down results

Calculation results for Austria

TJ	Top-down (Early Actions)	Top-down (2008–2010)	Bottom-up (Early Actions)	Bottom-up (2008–2010)
Households	**50.955**	**5.614**	**32.255**	**12.371**
Heating and hot water	46.925	4.441	28.302	10.699
Appliances	4.030	1.099	-	1.099
Lighting	-	74	14	135
Horizontal measures	-	-	3.939	438
SMEs and services	**46.215**	**9.481**	**870**	**2.084**
Mobility	**6.657**	**4.878**	**-**	**1.804**
Total	**103.827**	**19.973**	**33.125**	**16.259**

Double counting

Background

- Double counting no problem for top-down methods as long as EC model is used
- Double counting plays a role for bottom-up calculations when different actors implement the same kind of energy efficiency measures
- Bottom-up monitoring in Austria via an online database
  - Federal authorities
  - Provinces
  - Energy companies (voluntary agreements)

Method to avoid double counting

- Information from the monitoring data base:
  - Type of measure (e.g. installation of a new boiler)
  - Year of implementation
  - Province where the measure was implemented
  - User who entered the data
- Potential double counting
  - Same type of measure
  - Same year of implementation
  - Same province

Method to avoid double counting

- Potential double counting was communicated to the database users
- If double counting could not be excluded → only savings from one user were included into bottom-up savings

Future plans

- Improve process of avoiding double counting
- Database
  - More detailed information of the energy carriers
  - Improved automatic reporting/evaluation files
  - Improved communication between actors

AUSTRIAN ENERGY AGENCY

Thank you for your attention

Gregor Thenius
Austrian Energy Agency – Division Energy Economics
T: +43 (0)1 586 15 24 - 145
F: +43 (0)1 586 15 24 - 340
e-mail: gregor.thenius@energyagency.at
www.energyagency.at