

Danube Region RES Monitoring Project

8th Steering Group Meeting of the Priority Area 2
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Introduction

- Published by the EUSDR PA2
- Carried out between 2012–2013



Outline

- Case studies for 14 countries;
- Questionnaire;
- Areas:
 - General (share, importance of RES);
 - Licensing;
 - Grid integration;
 - Support schemes;
 - Cross-border cooperation;
- Cross-country Assessment;
- ▶ 14 Country reports



Country respondents

	Country	Respondent	
DE	Germany	Expert	
CZ	Czech Republic	Regulator	
AT	Austria	Regulator	
SI	Slovenia	Regulator	
SR	Slovakia	Ministry	
HU	Hungary	Regulator	
ВА	Bosnia y Herzegovina	Regulator	
RS	Serbia	Expert	
BG	Bulgaria	Expert	
RO	Romania	Expert	
UA	Ukraine	Regulator	
CR	Croatia	Regulator	
ME	Montenegro	Regulator	
MD	Moldova	Regulator	



Methodology

- Based on questionnaire survey;
- Quality control:
 - Cross-check with external sources;
 - Ask for revision if discrepancy tarced;
- Reflects data until 2012;



Structure of survey 1.

▶ 1. General part:

- On RES-E production level
- On consumption/prices
- Targets

2. Licensing:

- No. of authorities
- Length of process
- Certification:
 - Certification of origin exists
 - Responsible authorities

▶ 3. Grid Integration:

- Priority connection
- Allocation rule (FCFS, Tendering...)
- Deep vs. Shallow cost allocation
- Grid access
 - Priority rule
 - Forecasting obligation repsonsibility
- Balancing rules
 - Different from general?
 - Penalties
- Date closure
- Intraday exists/not



Structure of survey 2.

4. Support scheme

- Financing source
- Recent chages
- Existence of cap (on budget, quantity of RES...)
- Revision period
- Overall cost description of FIT-FIP schemes
 - Overall Budget
 - Quantity of RES-E supported
 - Incentive component
- What design elements apply (techn. differentiation, vintage, location...)
- Method of tariff setting (cost plus, benchmark...)

5. Cross-border cooperation

- Applied any form
- Plannning to use
- Would be interested to use

There is a separate paper on the flexibility mechanisms in the DR region.

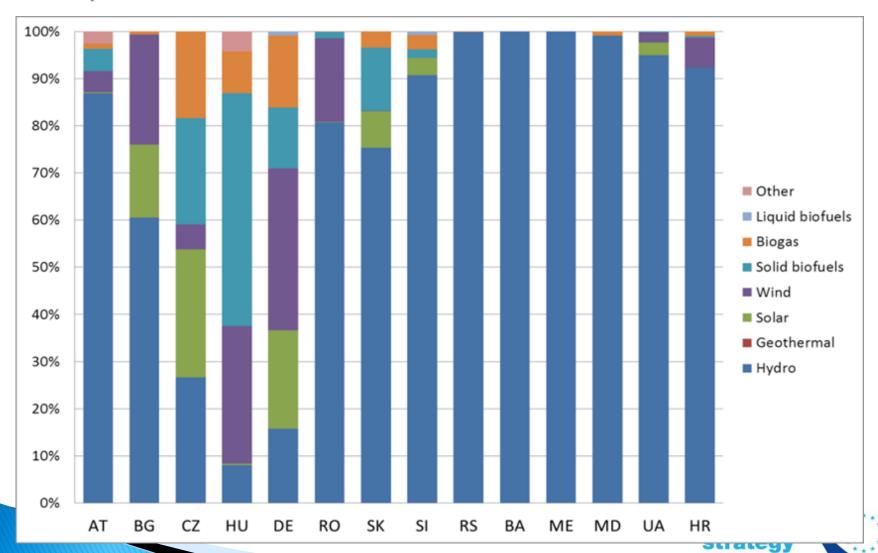
(to be presented later)



Main findings of Cross-country survey

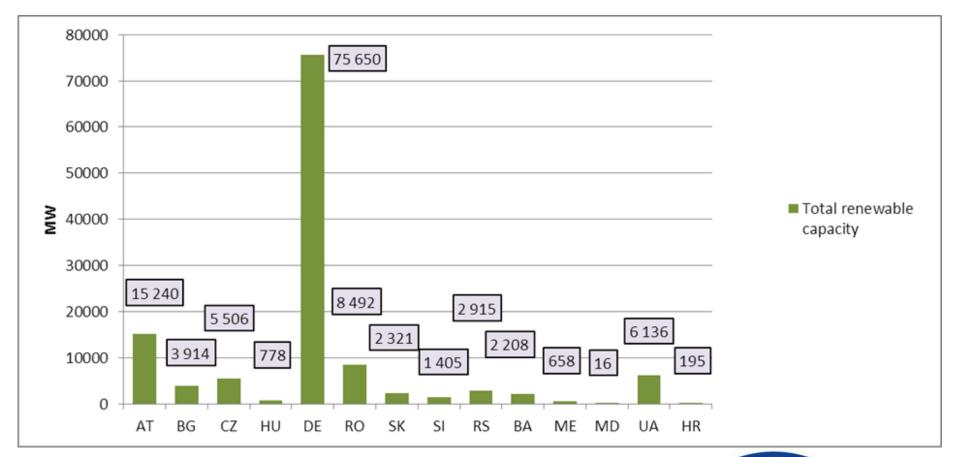


Composition of renewable electricity generation by source in the surveyed countries



Energy

Installed RES-E capacity by country and source



Licensing

		Overall lead time		
		below 9 months	9-24 months	above 24 months
Authorities involved	0 - 5	DE, ME		
	5 - 15 SK. SI. MD	SK SI MD	AT, BG, CZ	RS
	<u> </u>	SK, SI, MD	RO, UA, HR	K5
	above 15			HU, BA



Grid Integration

Table 1.2 Issues related to grid connection

Lovel of priority grouted for DEC E	priority	non-discriminatory		other
Level of priority granted for RES-E plants when <u>connecting</u> to the grid	BG, CZ, DE, SK, SI	AT, RO, RS, BA, ME, MD, UA, HR		HU
	first come first served	competitive bidding (tender)		other
Allocation of scarce RES-E connection opportunities in case of scarce grid connection capacity	AT, BA, BG, CZ, DE, HR, MD, RO, RS, SK, SI, UA	HU		ME
Cost sharing regime of grid	shallow non-shallow		non-shallow	
connection	BG, RS, MD, DE	AT, BA, CZ, HR, HU, ME SK, SI, UA		R, HU, ME, RO,
	no	yes		
Does the connection charges regime for RES-E plants differ	AT, BA, BG, CZ, DE, HR, MD, ME RO, RS, SI, UA	HU, S	К	

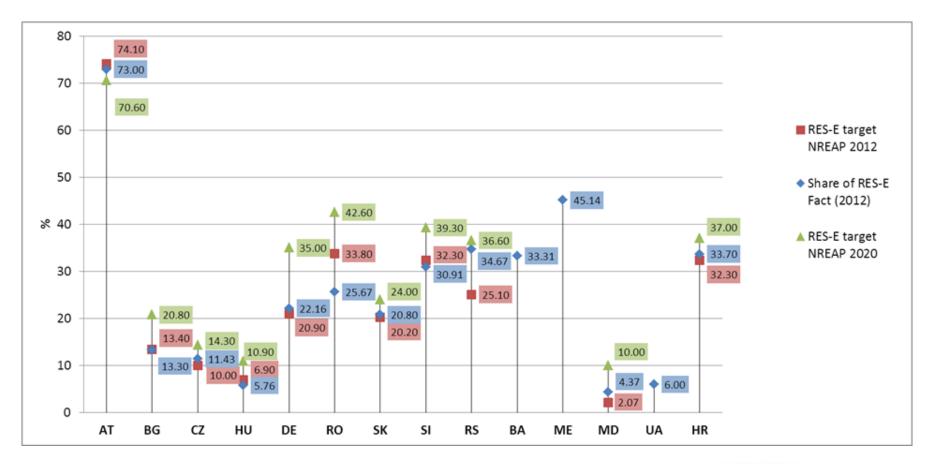
Source: REKK RES-E Survey 2013.

Table 1.3 Issues related to grid access

Tuble 1.6 Issues related to grid access					
priority granted	access rights to grid	priority	guaranteed	other	
to RES-E plants	\rightarrow				
dispatching to the grid ↓					
priority		AT, BG,CZ, HU, SK, SI, MD	RO, ME, UA, HR	RS	
non-priority		ВА			

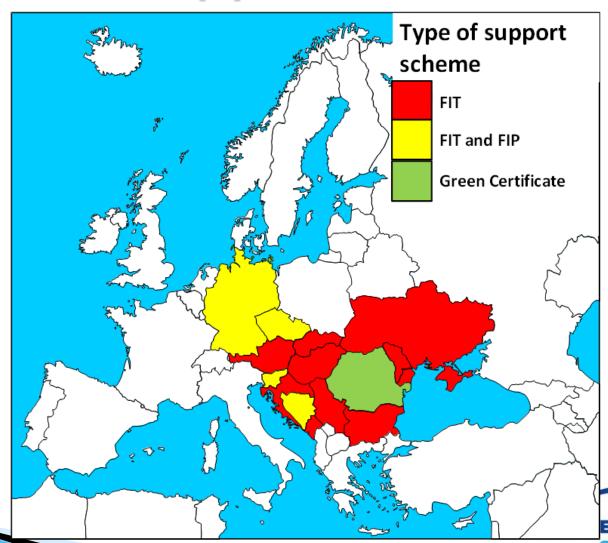
Source: REKK RES-E Survey 2013.

Target – achievement





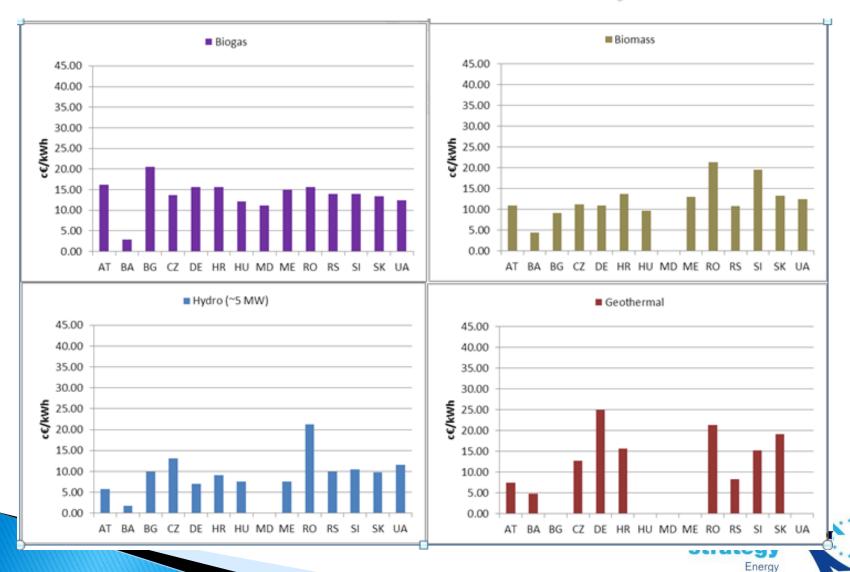
Type of Support Schemes in DR



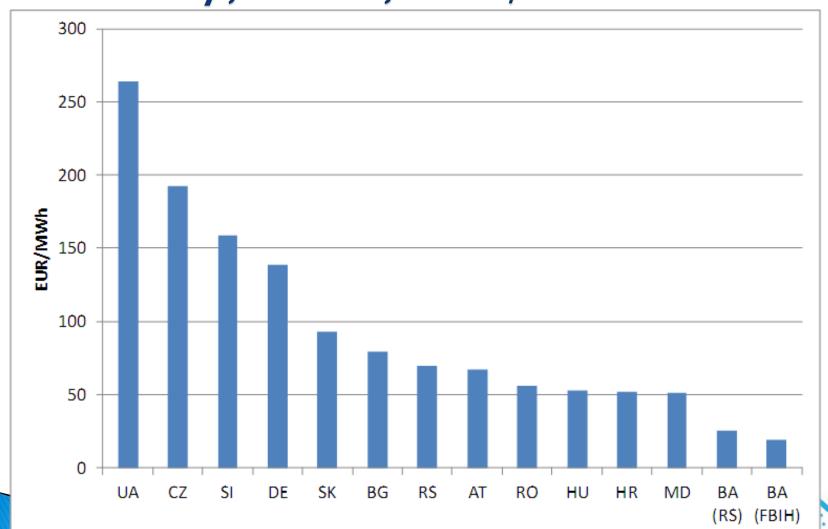
Calculated FIT levels 1,2012



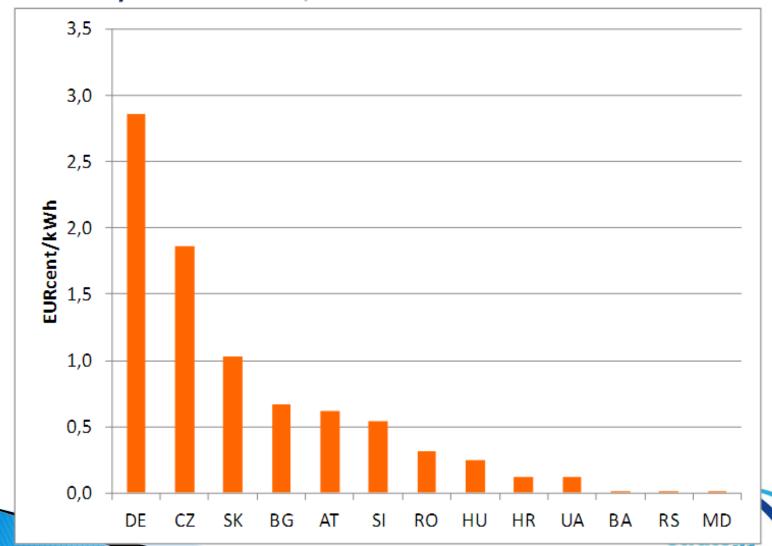
Calculated FIT levels 2, 2012



Unit support for renewable electricity, 2012, EUR/MWh

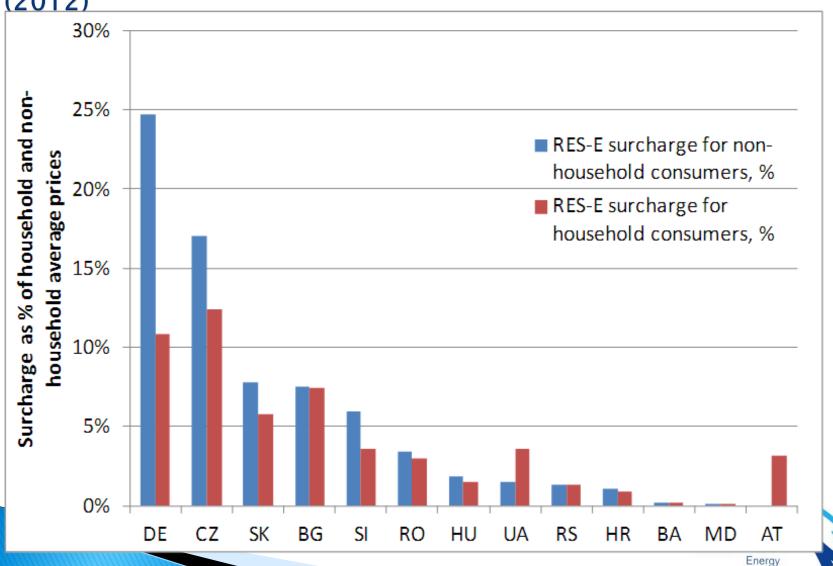


End-users' cost of renewable support per kWh of electricity consumed, 2012

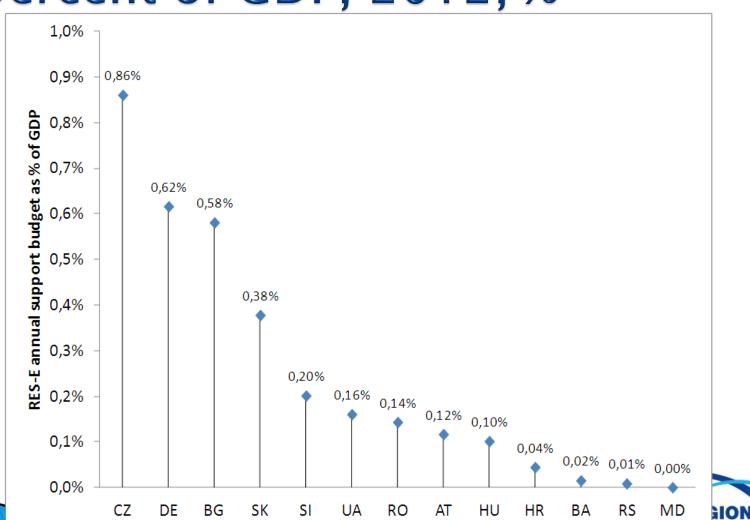


Energy

Expenditure for renewable electricity support as percentage of end-use prices for household and non-household consumers, % (2012)



Annual RES-E support budget as percent of GDP, 2012, %



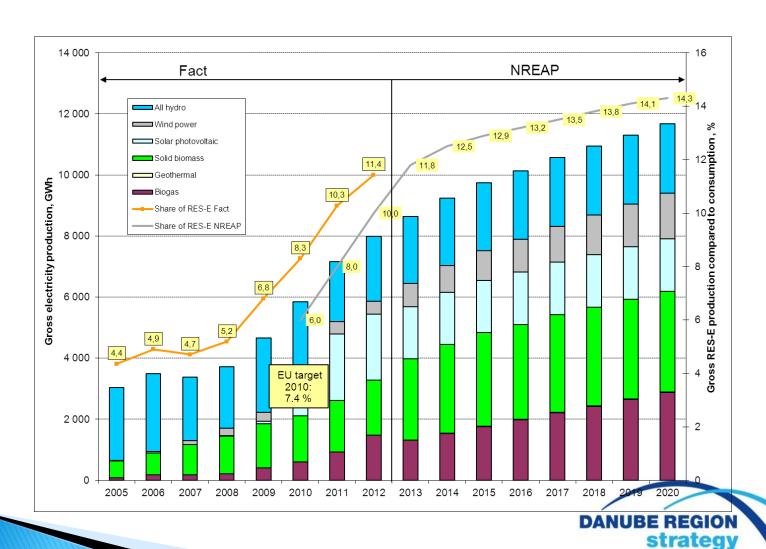
Energy

Country reports

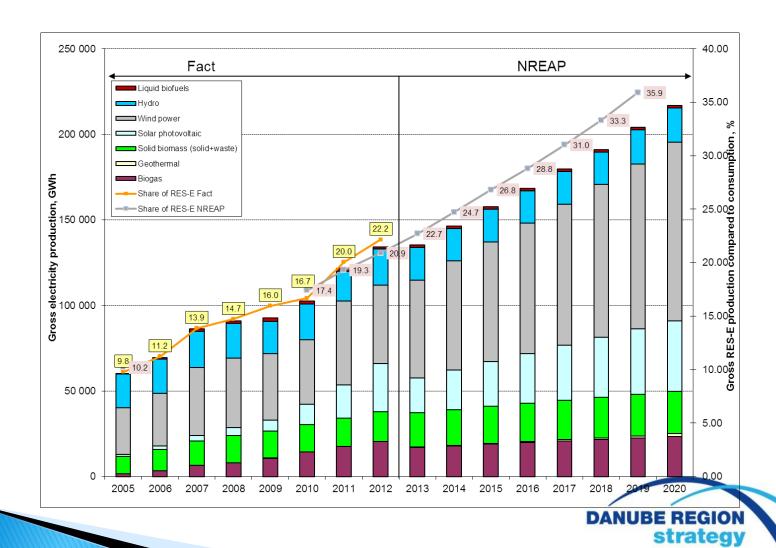
- For all 14 DR countries;
- Following structure of assesment;
- Indispensable data source for policy makers;
- Covering recent data till 2012;



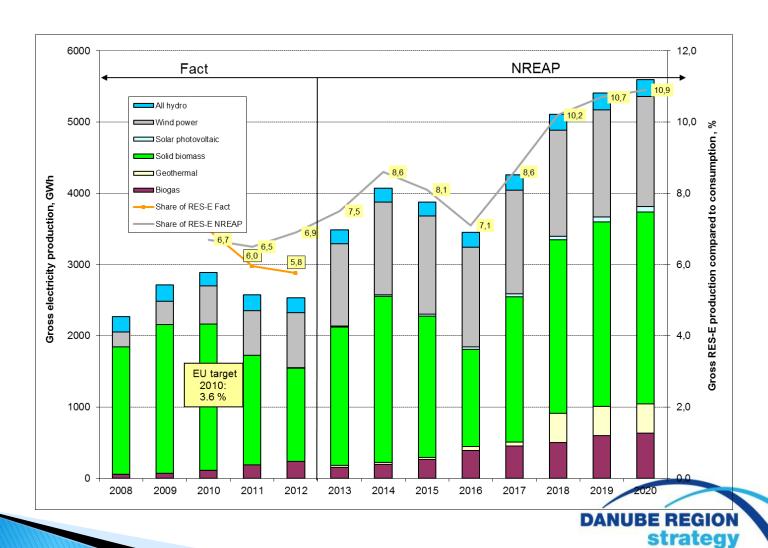
Country 1: Czech Republic



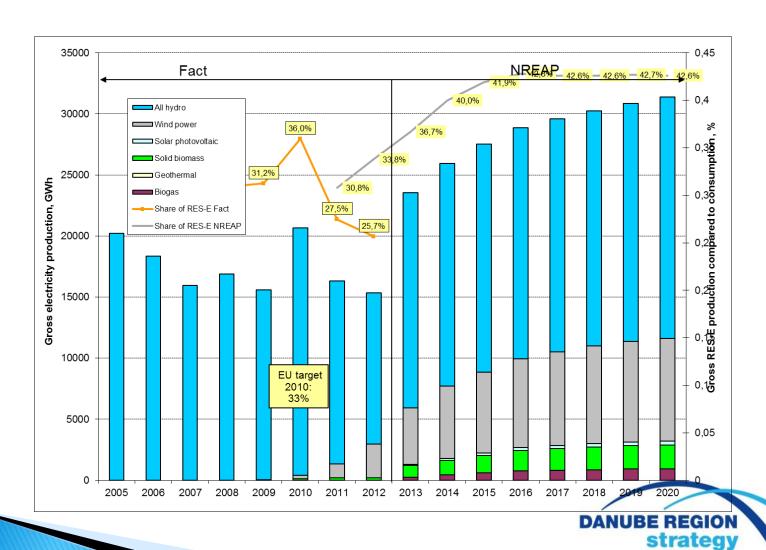
Country 2: Germany



Country 3: Hungary



Country 4: Romania



Key messages 1

- Numerous changes in the region's policy environment
- Significant investments have been made into new RES-E technologies
- Politically sensitive issue of the burden on electricity end-users caused by RES-E support policies in the Danube Region
- Sustainability of support is a major issue in the region



Key messages 2

- Most of the countries are well on track to meet their RES-E targets in 2020
- Accountability and stability are key to successful regulation of RES-E support instruments
- RES-E policymakers in the Danube Region still prefer to use feed-in tariffs (FIT) as their primary instrument choice
- Danube Region countries may be on the brink of major policy reforms to switch from FIT regimes to FIP schemes or other more market oriented ones



Thanks for your attention!