



MINISTRY
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The role of biogas in Hungary in the next decade

Hedvig Laczi





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OUTLINE

- Energy essentials for Hungary
- Strategies - nREAP
- Biogas situation
- Support schemes and incentives until 2020



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ESSENTIAL ENERGY INFO

- TPES in 2010: 1 040 PJ
- Gross final consumption 747 PJ
- RES 55,25 PJ (7.35 %)
- Natural Gas
 - Import dependency >80 %
 - Source of supply – Russia via Ukraine



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Strategies

- nREAP
- Sustainable Energy Management Act – second part of 2011
- Energy Strategy 2030 (2050) – Summer of 2011
- Biogas Action Plan?

2009/28/EK Renewable Energy Directive

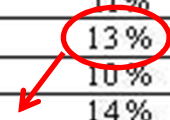
National overall share and targets for the share of energy from renewable sources in gross final consumption of energy in 2020

	Share of energy from renewable sources in gross final consumption of energy, 2005	Target for share of energy from renewable sources in gross final consumption of energy, 2020
Belgium	2,2 %	13 %
Bulgaria	9,4 %	16 %
The Czech Republic	6,1 %	13 %
Denmark	17,0 %	30 %
Germany	5,8 %	18 %
Estonia	18,0 %	25 %
Ireland	3,1 %	16 %
Greece	6,9 %	18 %
Spain	8,7 %	20 %
France	10,3 %	23 %
Italy	5,2 %	17 %
Cyprus	2,9 %	13 %
Latvia	32,6 %	40 %
Lithuania	15,0 %	23 %
Luxembourg	0,9 %	11 %
Hungary	4,3 %	13 %
Malta	0,0 %	10 %
The Netherlands	2,4 %	14 %
Austria	23,3 %	34 %
Poland	7,2 %	15 %
Portugal	20,5 %	31 %
Romania	17,8 %	24 %
Slovenia	16,0 %	25 %
The Slovak Republic	6,7 %	14 %
Finland	28,5 %	38 %
Sweden	39,8 %	49 %
United Kingdom	1,3 %	15 %

13%

↓

14,65%





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Renewable Policy - 2020

- Increase of RES share in final energy consumption to **14,65% in 2020** and further increase in following years
- **10% biofuel share in transport fuels market in 2020** and in following years

Main points:

- 1) Security of energy supply
- 2) Sustainability, climate change
- 3) Rural development
- 4) Green economy
- 5) Contribution to EU goals



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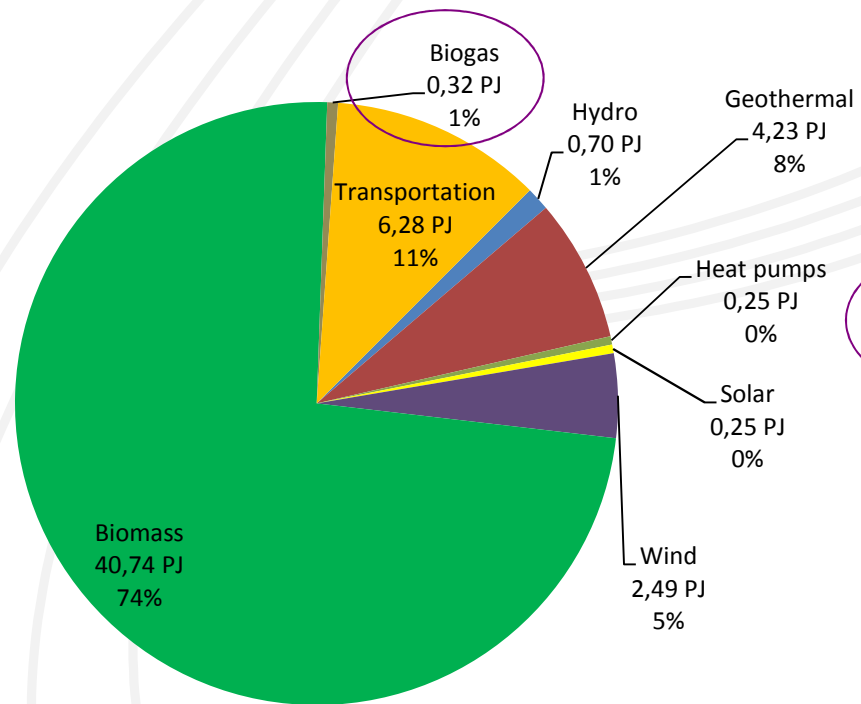
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National Renewable Energy Action Plan

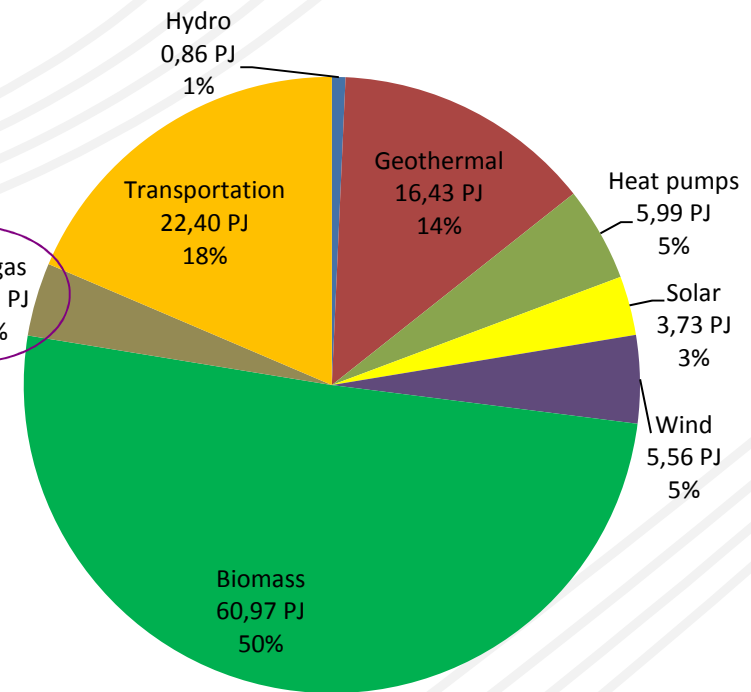
Biogas Highlights

- More balanced mix
- High role in reaching environmental goals
- In the near future: biomethane plants
- Green electricity – green heating
- CNG - LNG

RENEWABLE ENERGY SHARE



2010: 55,25 PJ



2020: 120,57 PJ

Biogas potential

REDUBAR



	<i>Source of biomass</i>	<i>On the average</i>	
1.	Agricultural residues	131,32	PJ
2.	Forestry residues	39,22	PJ
3.	Animal by-products	3,72	PJ
4.	Sewage sludge	5,91	PJ
5.	Industrial organis waste	0,42	PJ
6.	Municipal waste	42,25	PJ
	Total:	222,84	PJ
	In biogas:	8 914	million m³
	In natural gas equivalence:	5 714	million m³

Biogas Plants in Operation

Plants	MW
Biogas	36,95
Municipal waste	6,49
Pyrolysis	1,66
Sewage	10,19
Total	55,28



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Incentives

- New Széchenyi Plan offers 520 M EUR for green economy development
- New Hungary Rural Development Programme – animal husbandry
- 2014: new operational programme for energy



Problems – planned measures

- Hard to find a creditor - Green development fund
- Low investment spirit
- MOT system – currently under revision
- Authorisation – long procedure
- Feed-in system - facilitation
- R+D in renewables
- Energy consultancy network



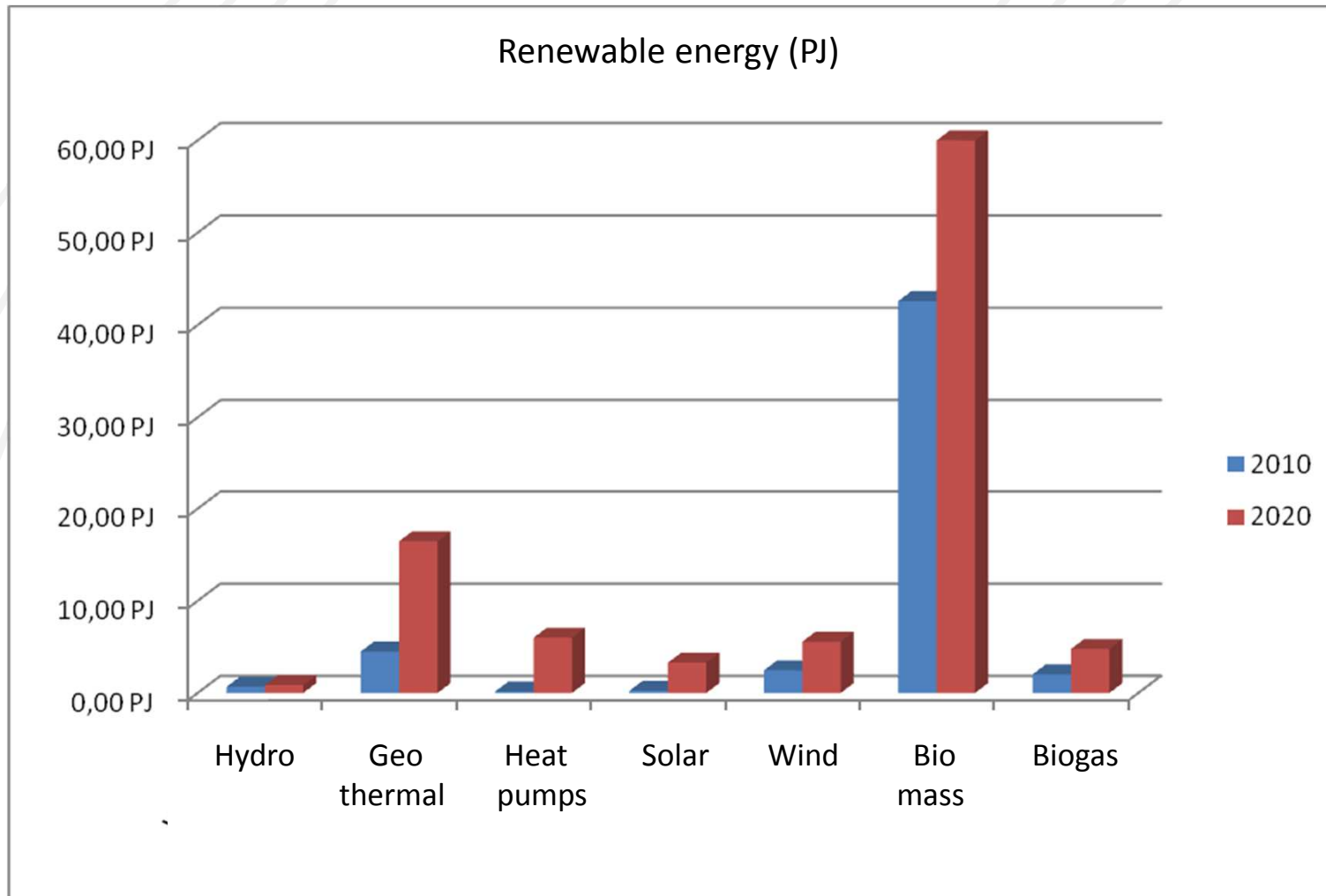
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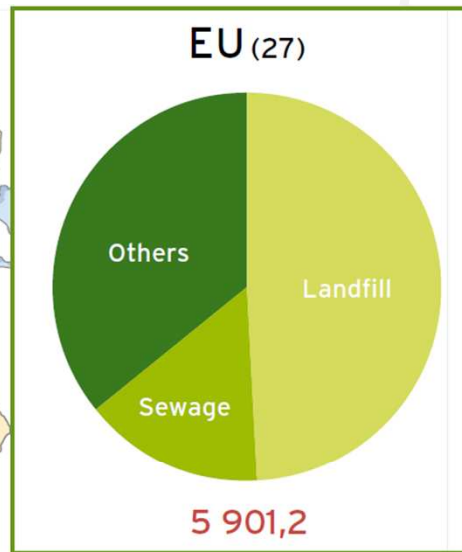
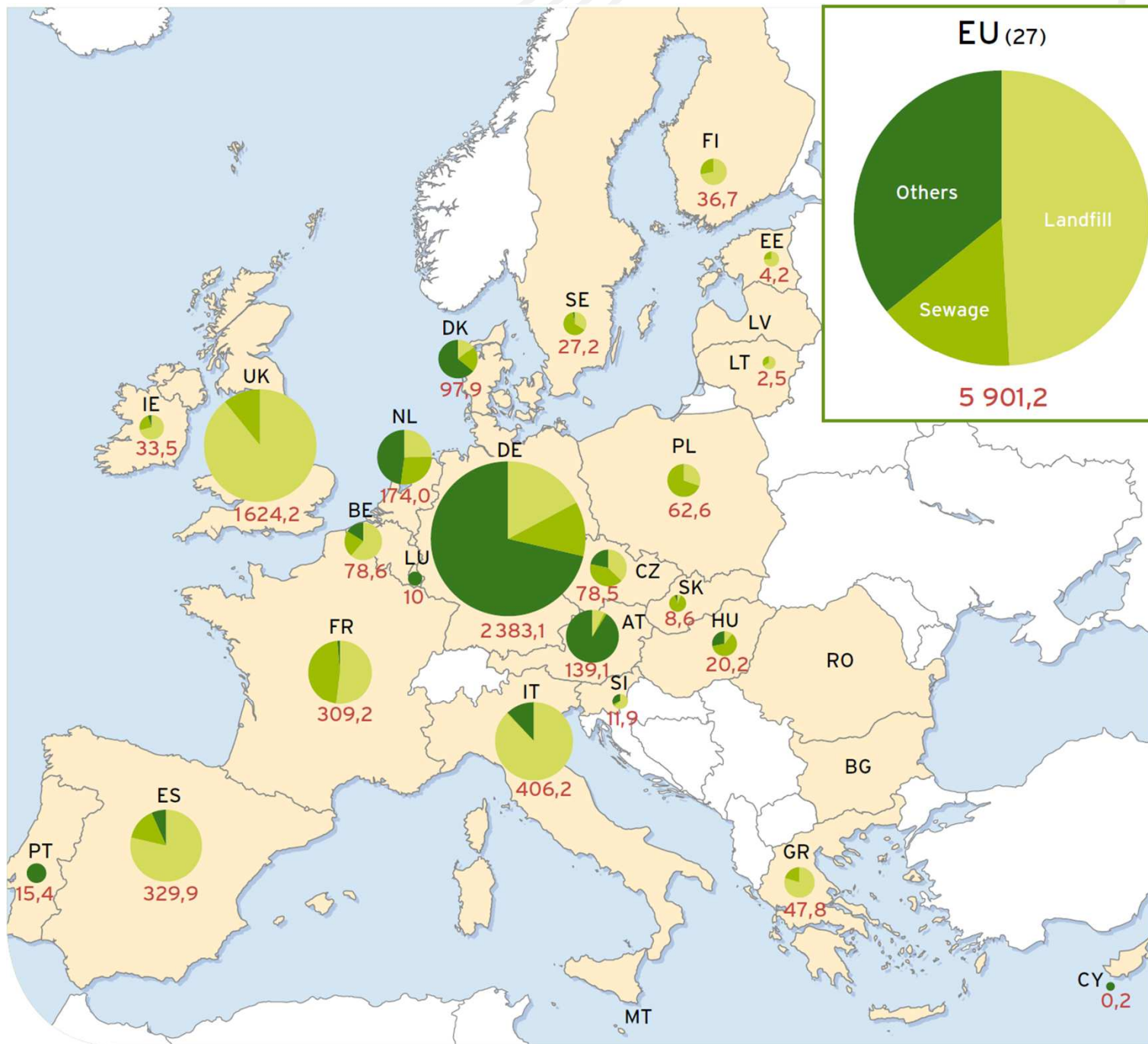
**Thank you for your
attention!**

hedvig.laczi@nfm.gov.hu

RE MIX STRUCTURAL CHANGES



Data source: nREAP, Hungary



1000 lakosra jutó biogáz termelés 2006-ban (toe)

