



Experience of the Czech Republic with implementation of various RES PaMs

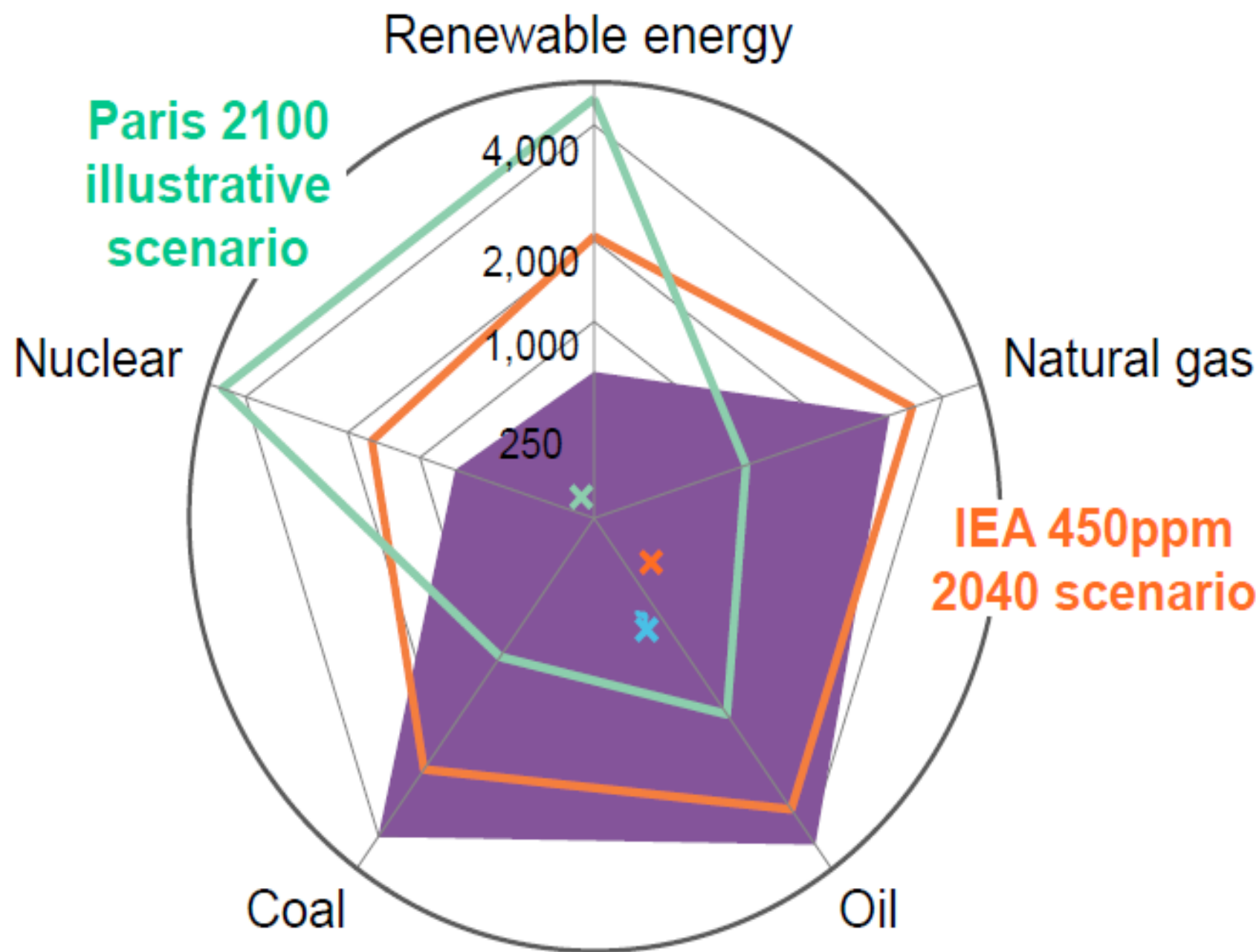
8 June 2016, Budapest

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Global Energy Mix before and after Paris (Mtoe)

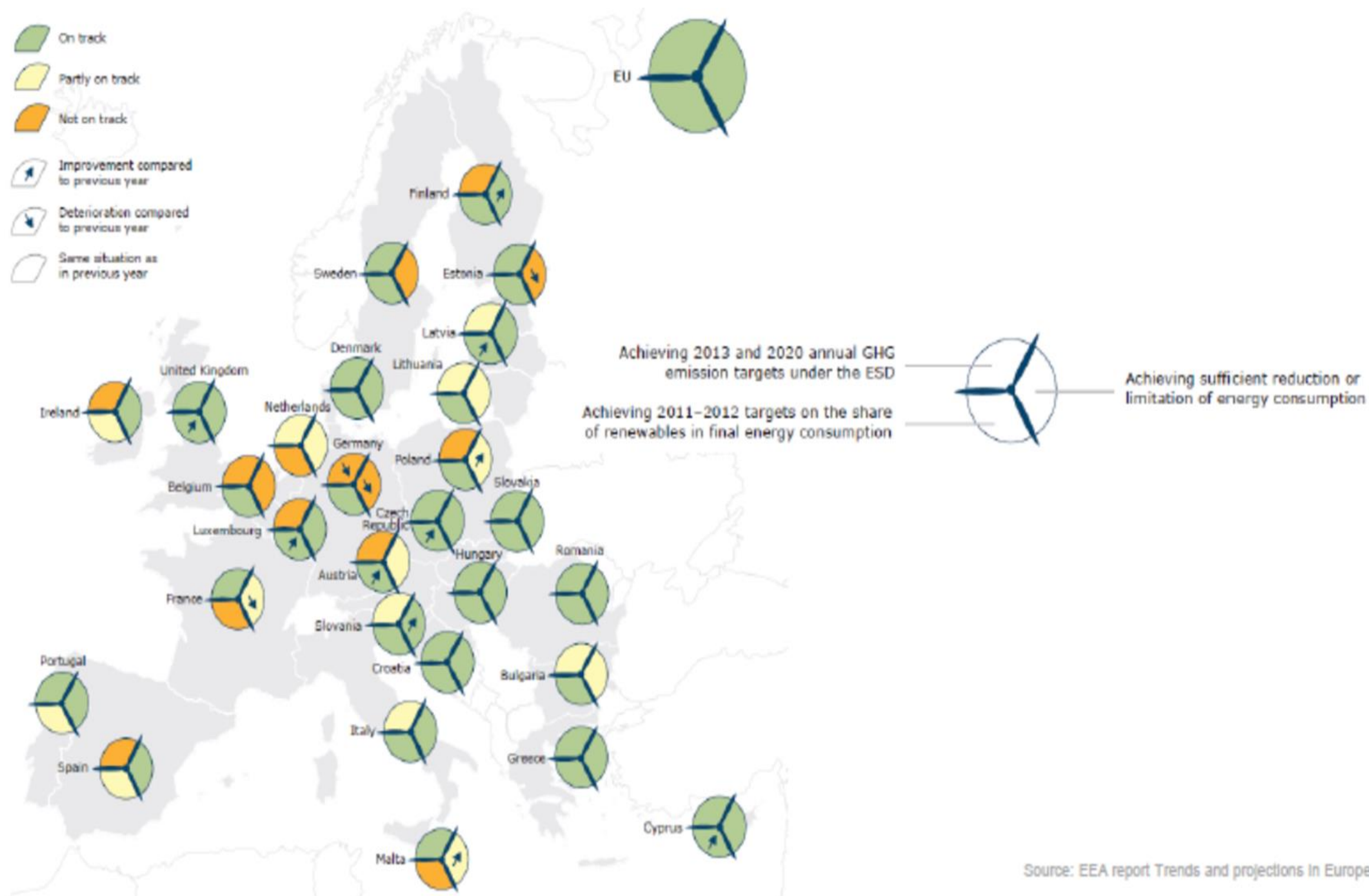


Note: BNEF adjusted IEA NPS forecast using its own electricity generation and EV demand forecast. Renewables total excludes bioenergy.

Source: Bloomberg New Energy Finance, IEA



On the way to achieve 2020 C-E Targets



Source: EEA report Trends and projections in Europe 2014.

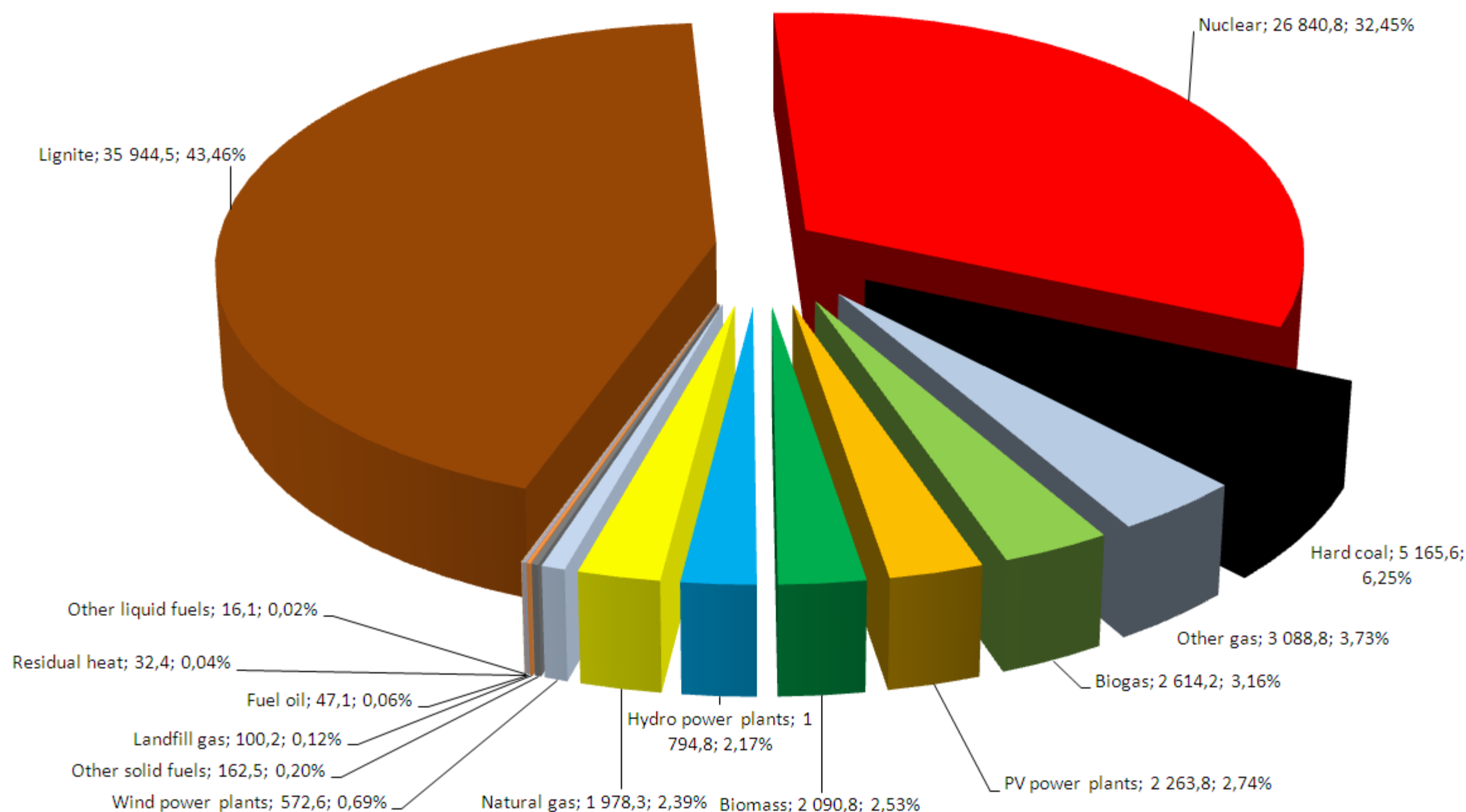
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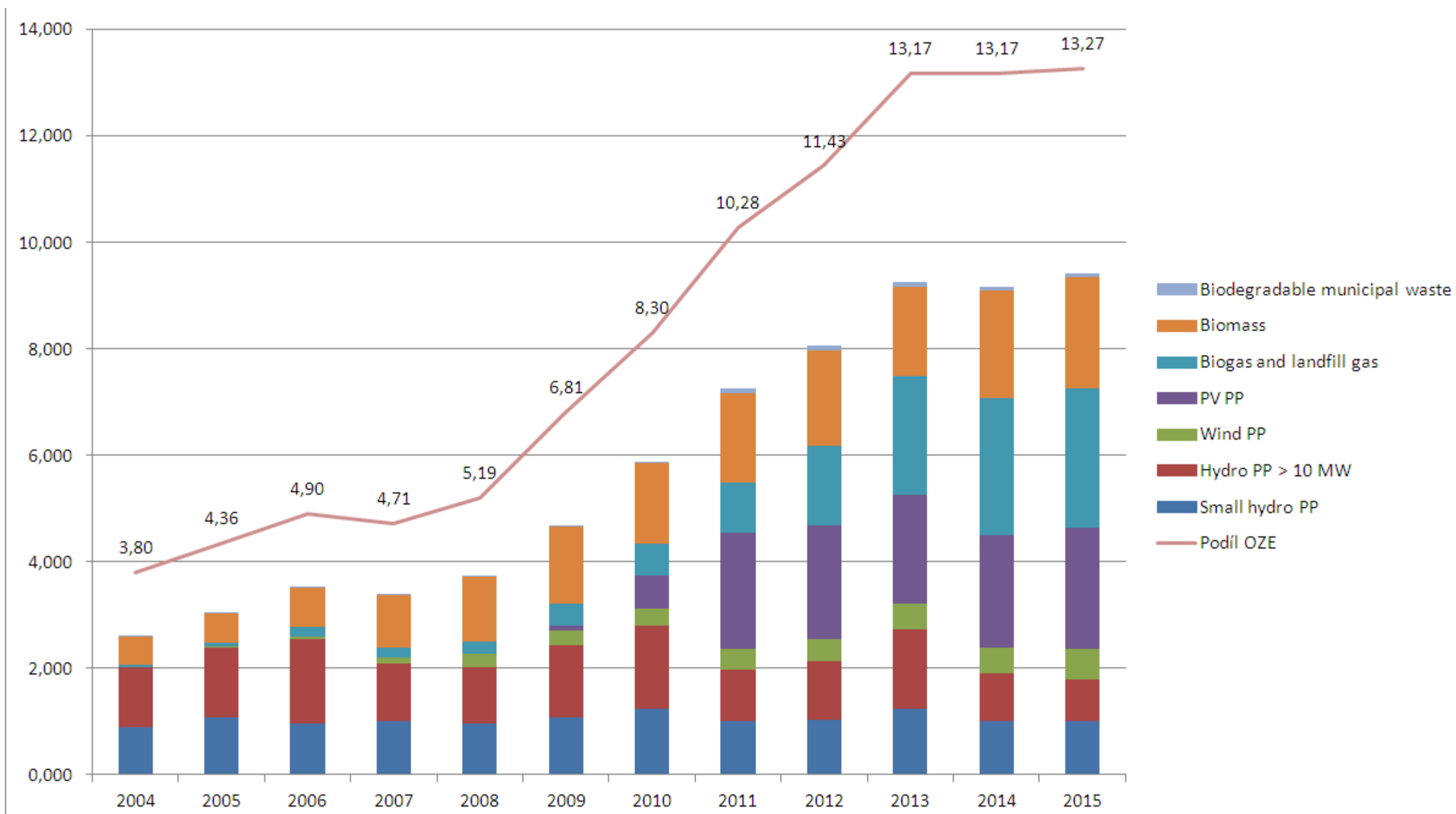
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Electricity generation mix in CZ (2015)



Electricity generation from RES in CZ (2004-2015)



RES issues in the Czech Republic

- The major RE regulatory failure happened in 2009-2011 and caused the biggest part of the current 1,6 bln EUR annual bill (80 % large PVs)...and general negative attitude towards RE.
- RES subsidy ceiling of 17 EUR /MWh has been established for final consumers – the rest of the bill covered by the state budget (EUA revenues) – increasing trend fixed until 2030!
- There is no chance for FiT or GB subsidy for new RES installations since 2014
- Investment subsidy prevails (EU and National Programs) – combination with EE in building sector or industry, in 2015 first call for small PV (roof) projects with accumulation.



Measures to reach 2020 target (1/2)

- Financial support
 - Investment incentives
 - EU funds
 - National support programmes
- Operational support
 - Fed-in tariffs (electricity)
 - Green bonuses (electricity, heating)



Measures to reach 2020 target (2/2)

- Legislative measures
 - Act No. 406/2000 Coll.
 - Reduction of final energy consumption
 - Act No. 458/2000 Coll.
 - No licence needed for small RES power plants
- Strategic documents
 - State Energy Policy
 - National Action Plans on RES, NAP on Smart Grids



RES share in final energy consumption 2005 - 2020

	2005	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Heating and cooling	9,3	12,9	13,4	14,5	15,8	16,0	15,7	16,2	16,9	17,7	18,2	18,9
Electricity	3,4	7,5	10,6	11,6	12,7	13,7	13,6	13,9	14,1	14,7	15,1	15,2
Transport	0,4	4,0	5,2	5,2	5,2	5,7	6,5	7,0	7,5	8,2	8,9	10,0
TOTAL	6,1	9,6	10,8	11,6	12,5	12,9	13,1	13,5	13,9	14,6	15,1	15,8



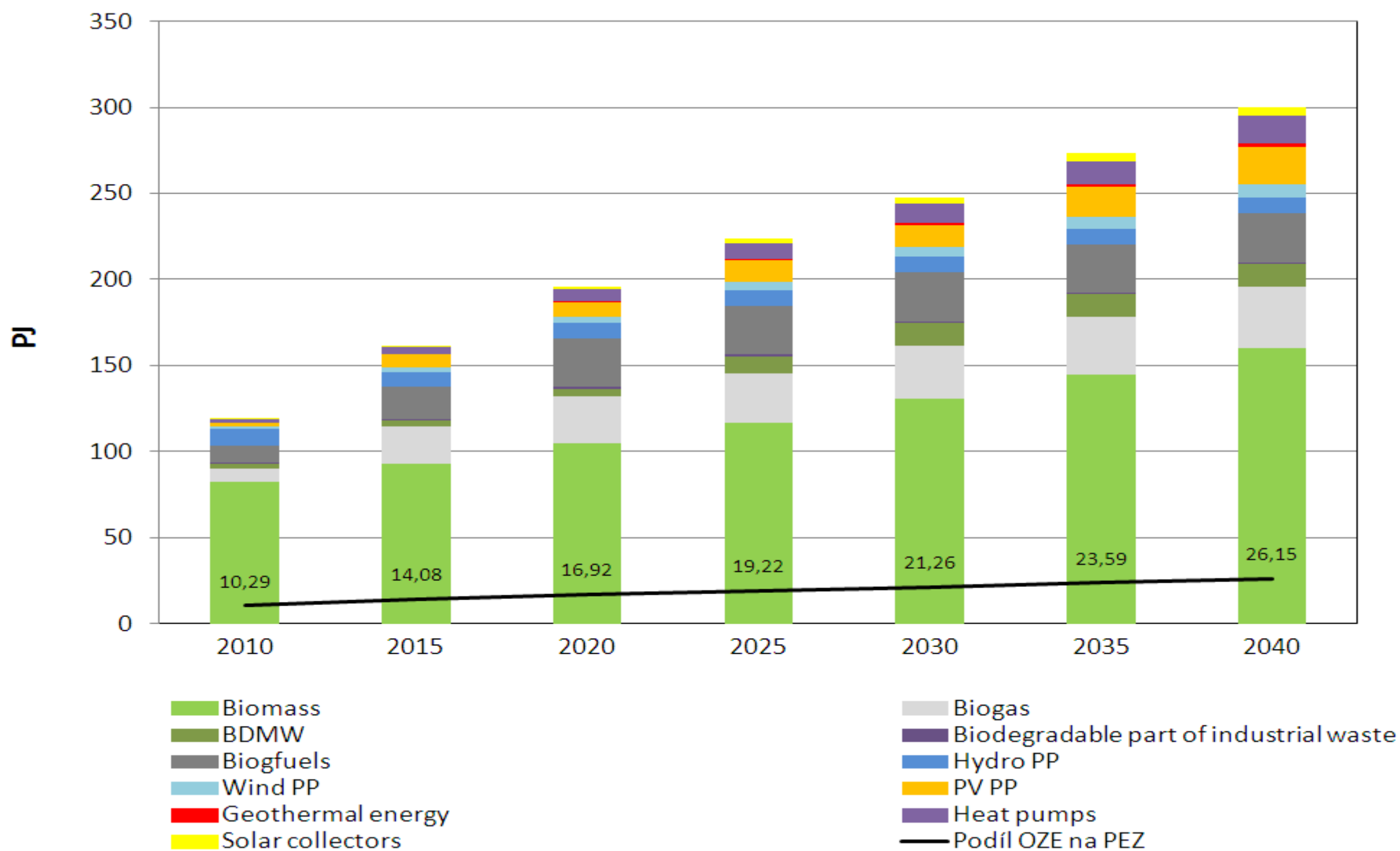
RES development in sectors 2005 - 2020

2005 = 100	2010	2015	2020
Heating and cooling	126	155	181
Electricity	223	411	477
Transport	990	1680	2720
TOTAL	150	209	255

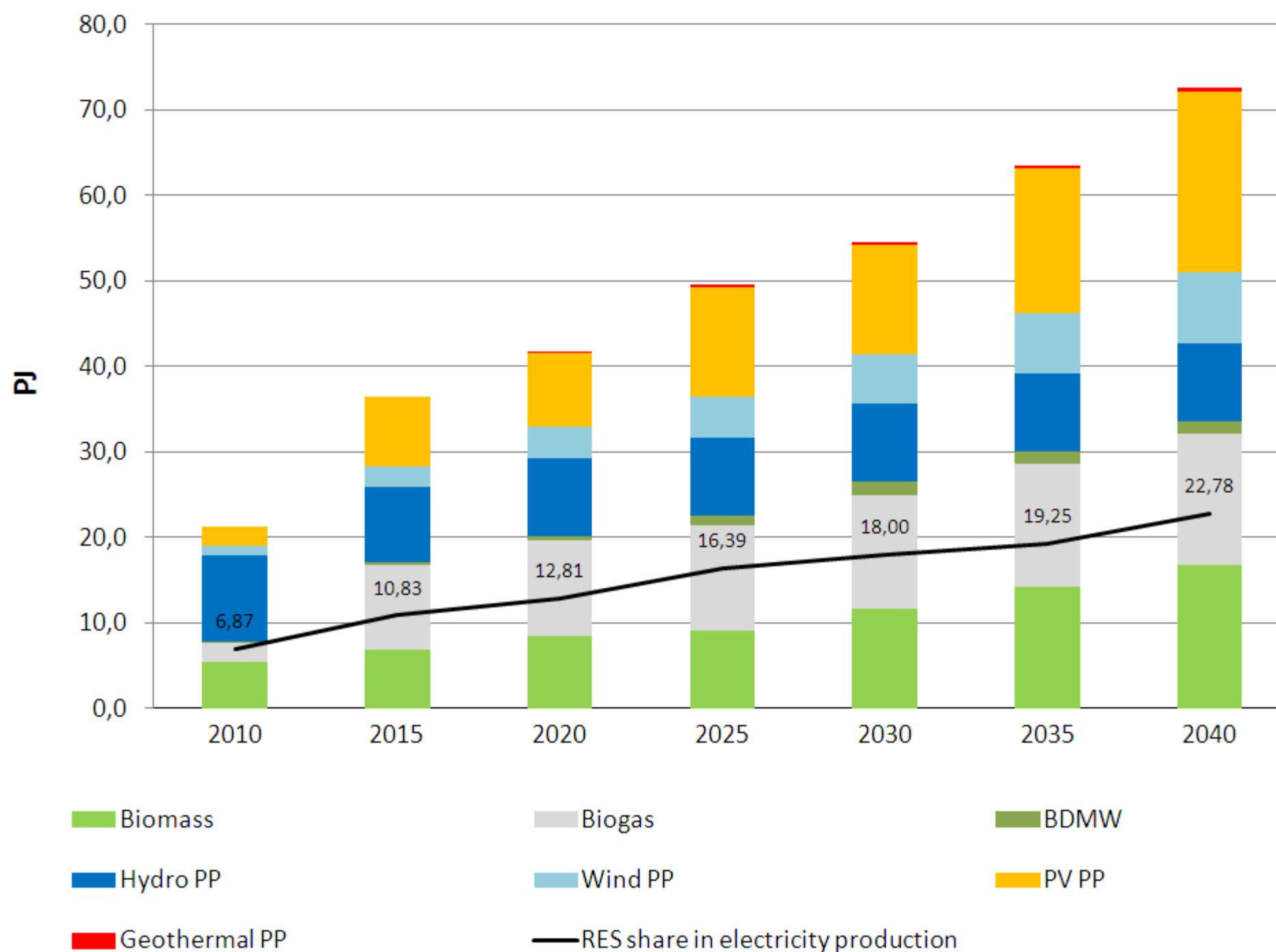
ktoe	2010	2015	2020
Heating and cooling	367,4	794,6	1167,4
Electricity	251,1	632,2	767,3
Transport	219,9	390,2	647,2
TOTAL	838,4	1817	2581,9



RES share in PES 2010 - 2040



RES share in electricity production 2010 - 2040



RES governance and pledges after 2020?

- Need for a clarity on legislation concerning various aspects of RE (ILUC, Buildings, etc.), including the EnU governance and sufficient information and predictions in terms of market conditions (electricity, ETS, RES costs) and available financial sources and funding schemes (IF, MF, 10c) ➤ subsequent RES scenarios.



Thank you for your attention!

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