



MAJANDUS- JA  
KOMMUNIKATSIOONI-  
MINISTEERIUM

# National Renewable Energy Action Plan

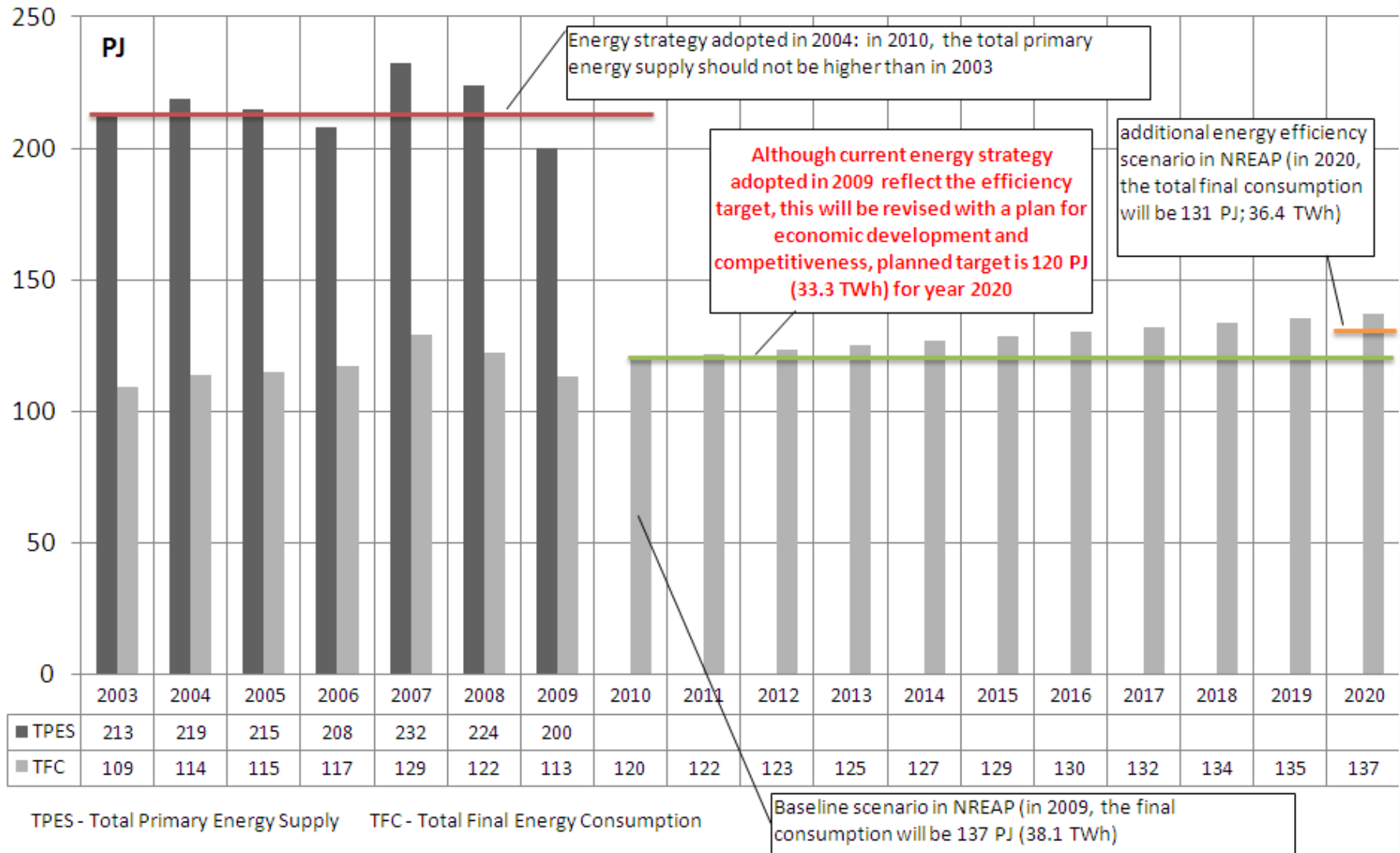
## Estonia

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Communications

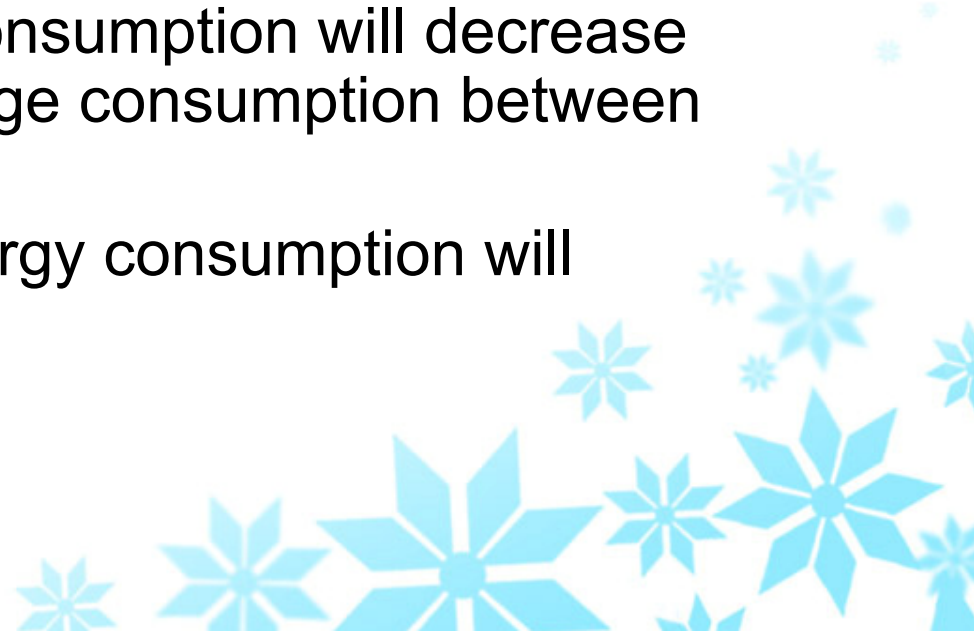


# Estimates of final consumption and targets of energy efficiency policy

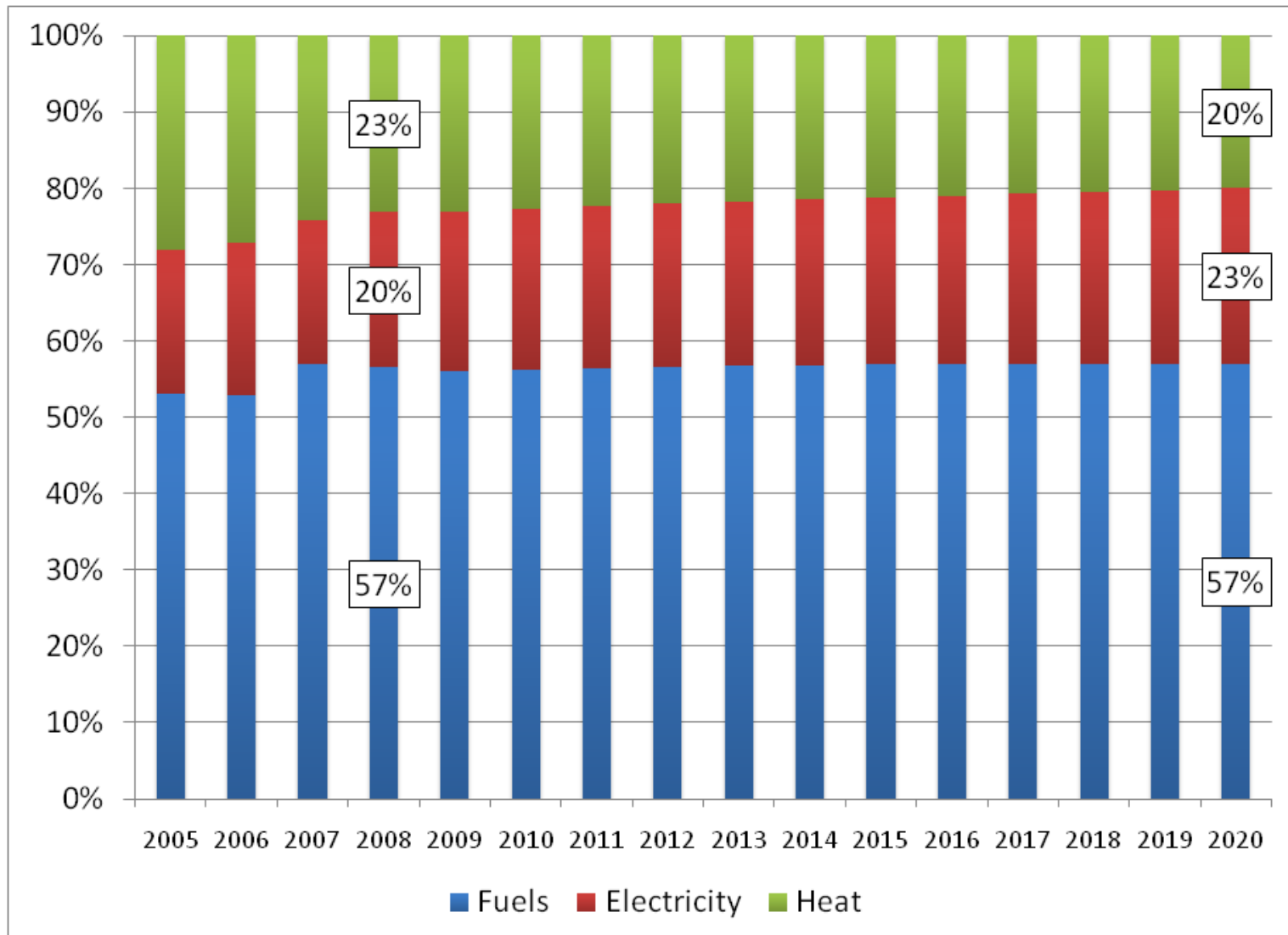


# Estimates of the energy consumption

- total final consumption will increase by 8.4% compared to average consumption between 2005 and 2008
- largest growth is expected in industry sector (24%), in agriculture the energy consumption will grow 17%, transport 13% and in services sector 2.5% compared to average consumption between 2005 and 2008
- in households, energy consumption will decrease 1.7% compared to average consumption between 2005 and 2008
- in energy sector, the energy consumption will decrease 3%.



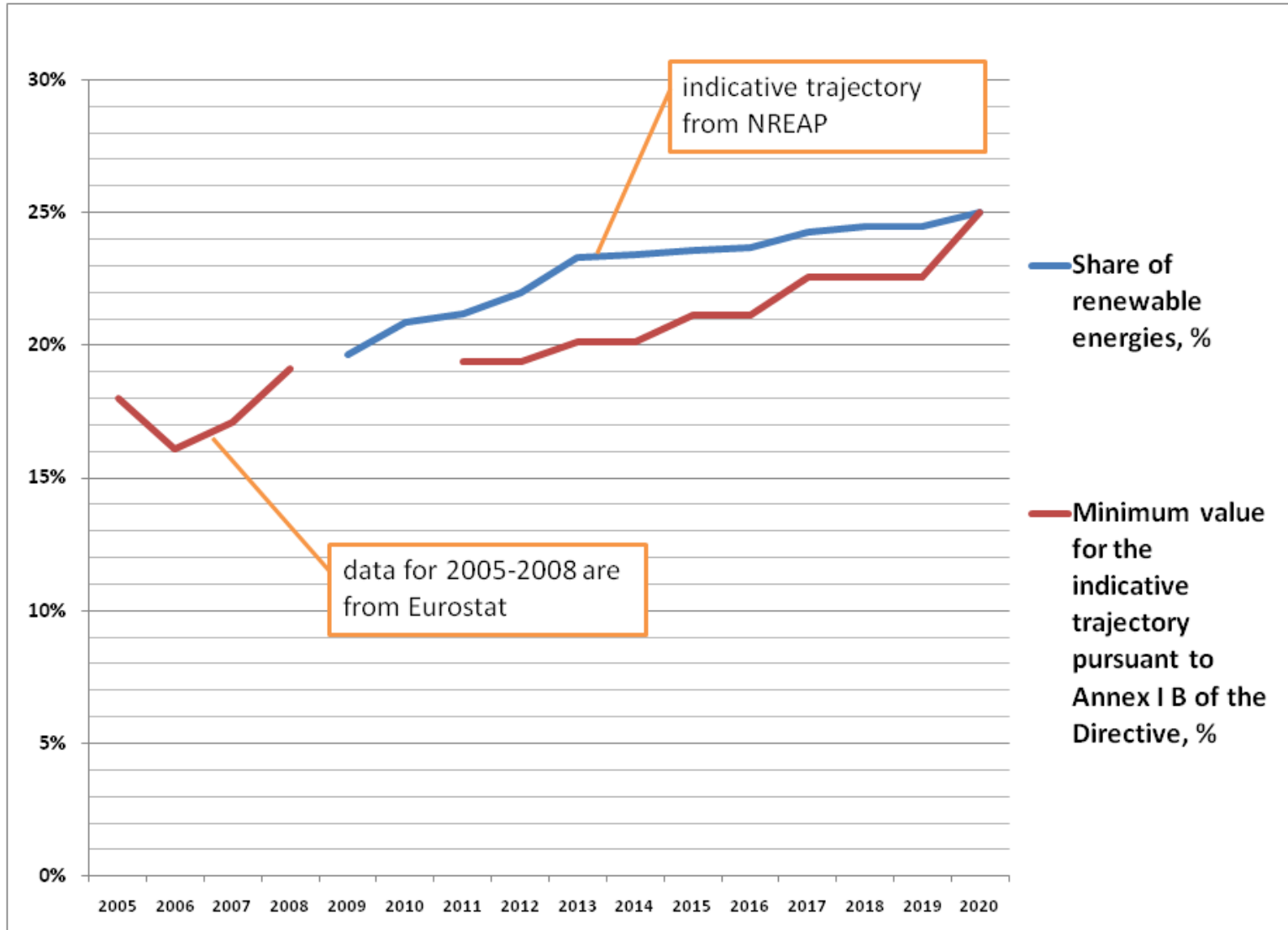
# Expected changes in structure of energy consumption



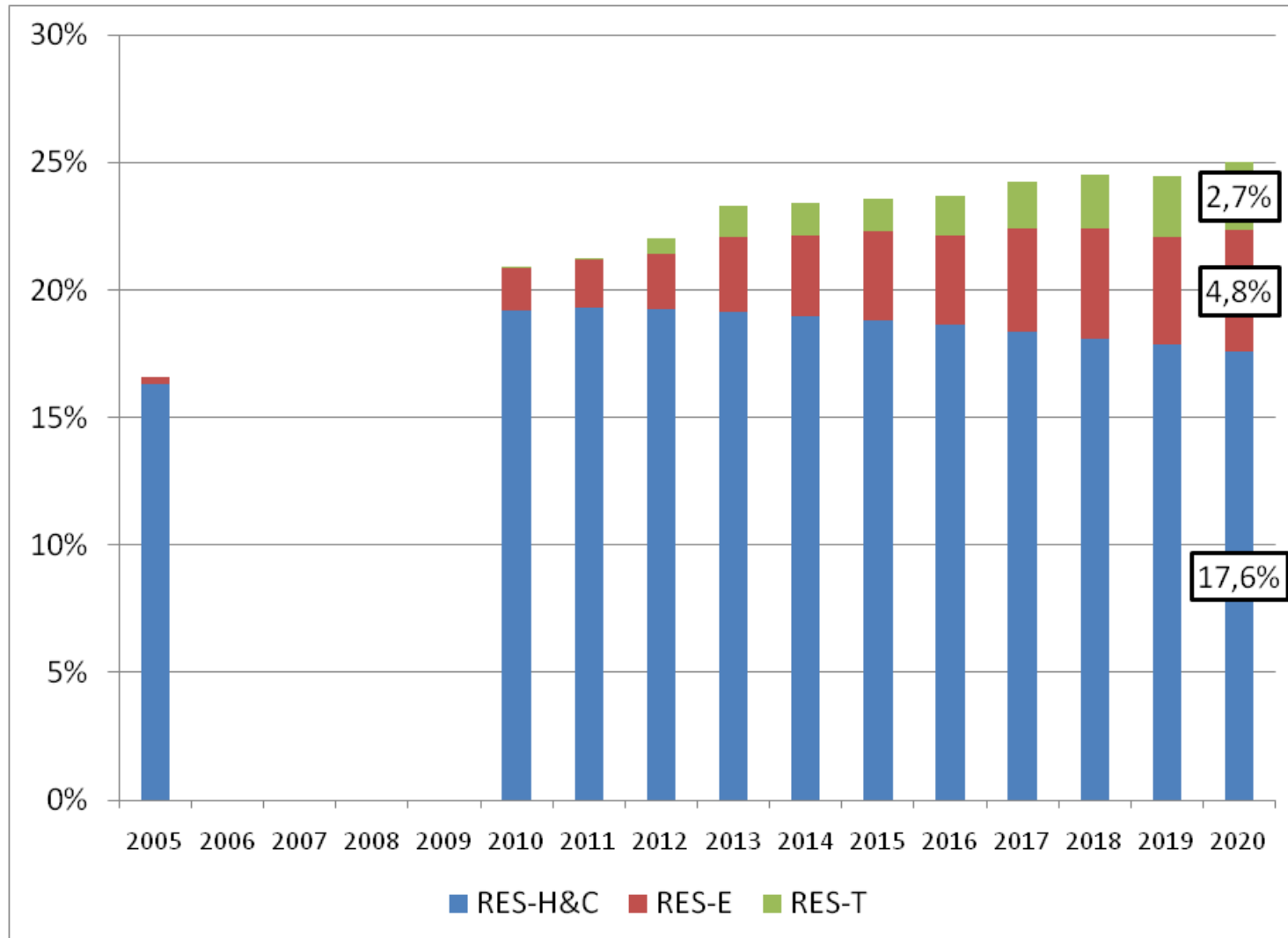
# National overall target

A) Share of energy from renewable sources in gross final consumption of energy in 2005 ( $S_{2005}$ ) (%)	<b>18</b>
<b>(B) Target of energy from renewable sources in gross final consumption of energy in 2020 (<math>S_{2020}</math>) (%)</b>	<b>25</b>
(C) Expected total adjusted energy consumption in 2020, (ktoe)	<b>3 451</b>
(D) Expected amount of energy from renewable sources corresponding to the 2020 target (calculated as B x C), (ktoe)	<b>863</b>

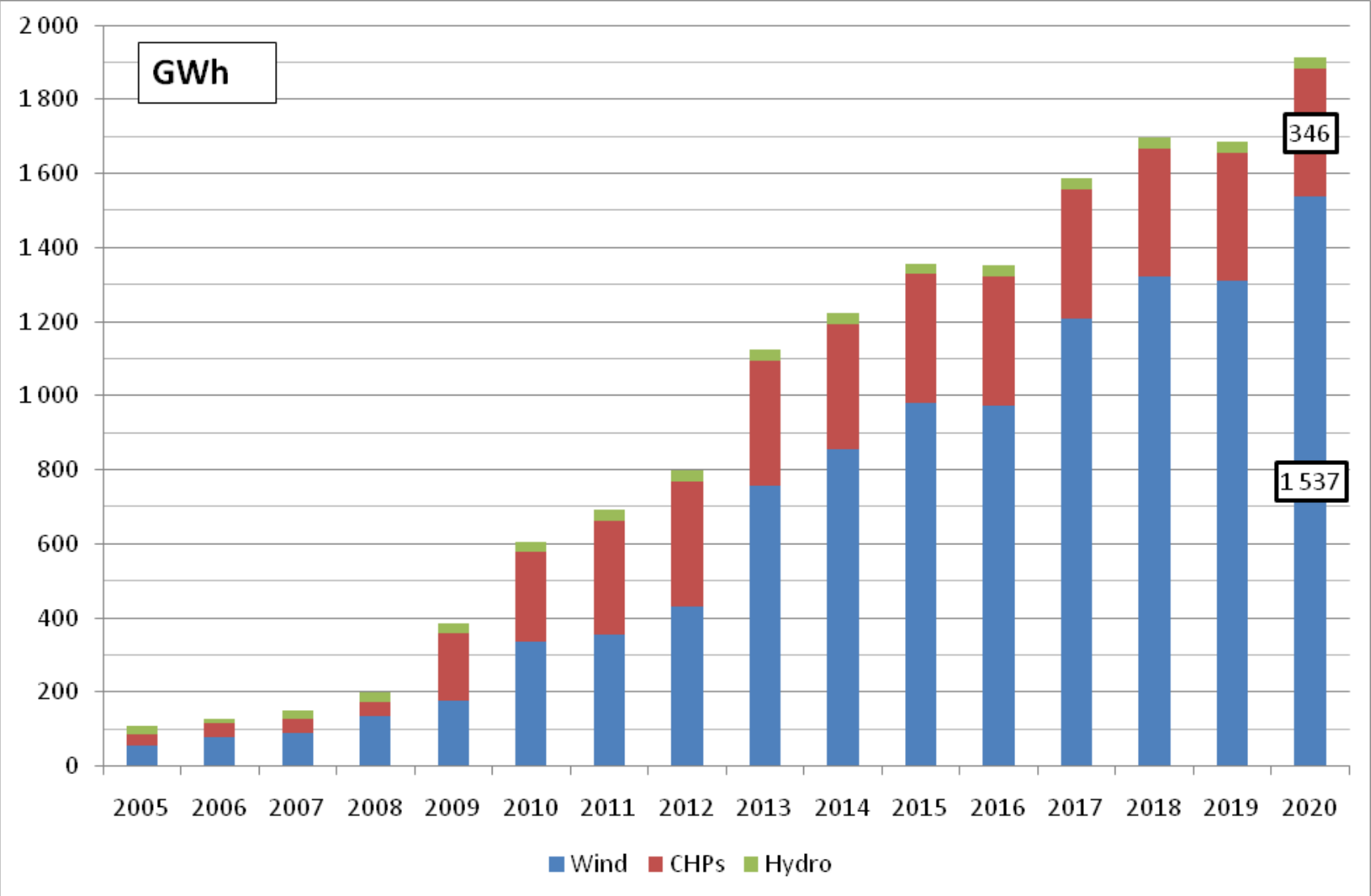
# Achieving national target



# Achieving national target



# Electricity generation from renewables





# Measures to promote RES-E generation

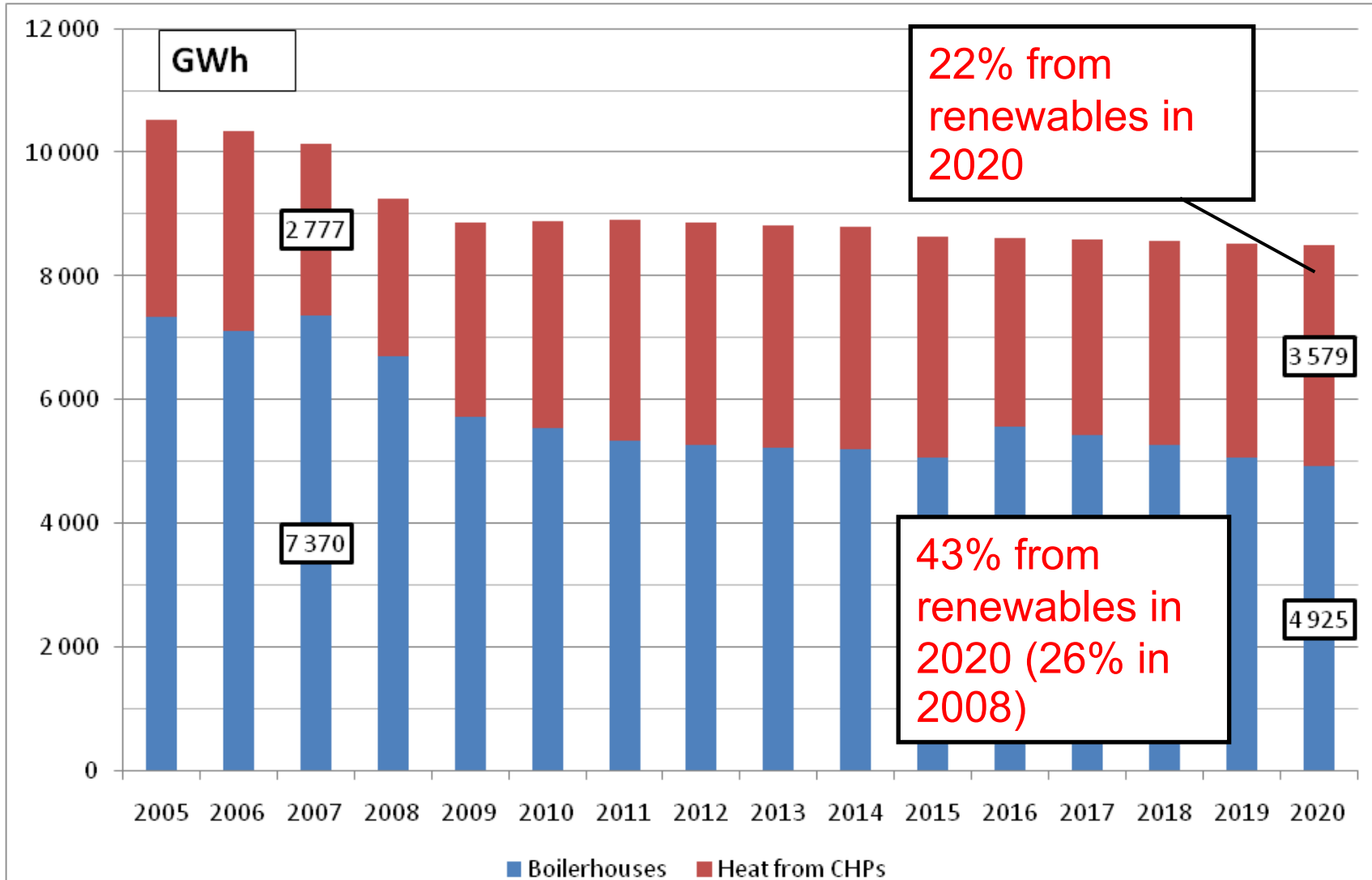
- Premium tariff support scheme (premium tariff 53.7 €/MWh + market price ~50 €/MWh), available for 12 years
  - for RES-E generation in CHPs unlimited support
  - for wind, support is available until 600 GWh is generated during the calendar year
- Investment support schemes
  - for installation of wind energy capacities, first call of proposals ~30 MW;
  - for small CHPs (biogas, biomass) less than 2 MW<sub>el</sub>
- Wind energy support scheme extensions probably needed for additional 300 MW, in total 650 MW needed

# Measures to promote RES-E generation

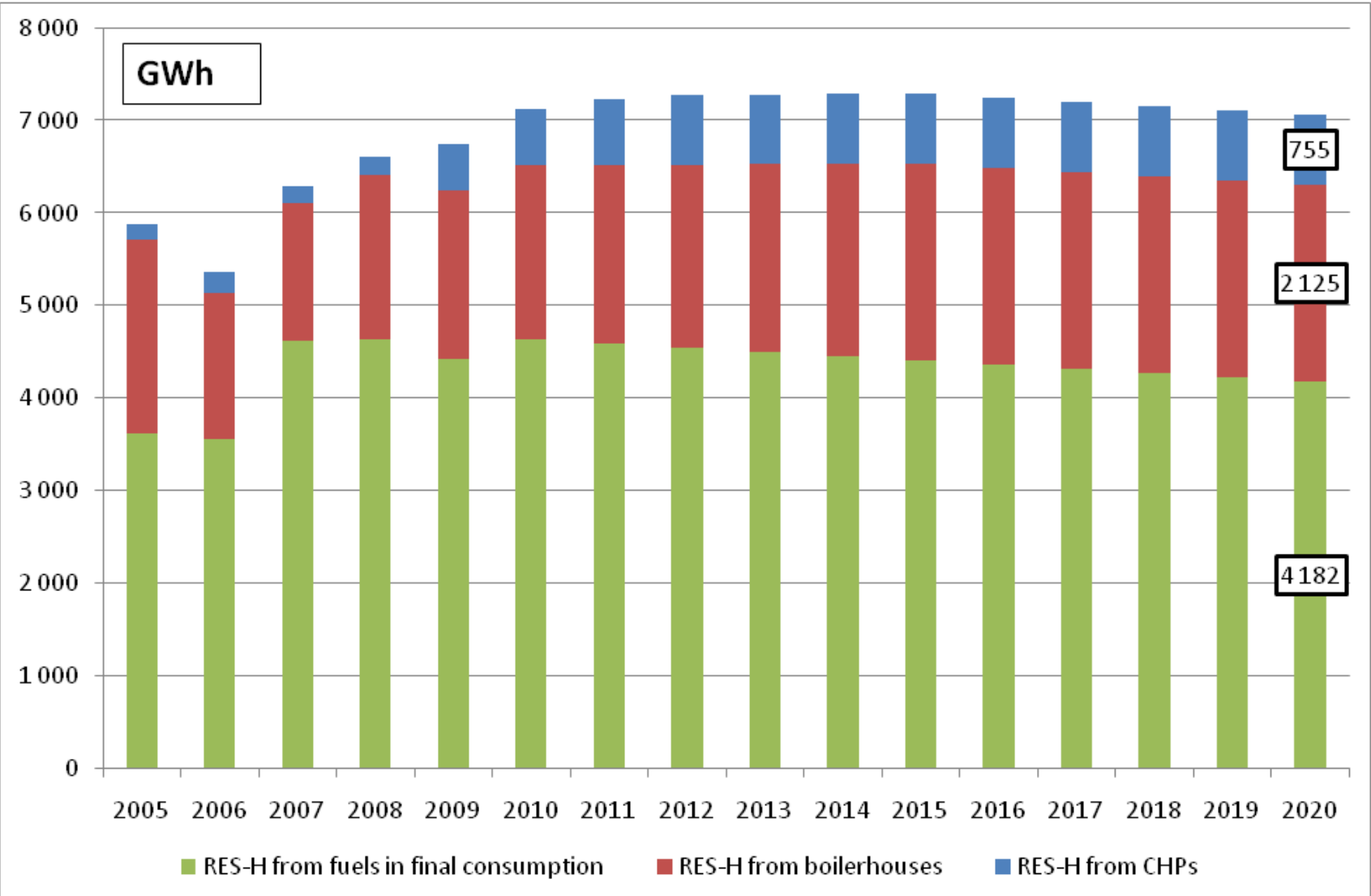
- Investment support scheme for offshore wind farms
  - the use of use of flexibility mechanisms is envisaged
- Development of the grids
- Measures to streamline planning of offshore wind farms



# Heat generation in boilerhouses and CHPs



# Heating and cooling from renewables



# Measures to promote RES-H generation

- Fuel excises discourage the use of fossil fuels and promote conversion to RES in boilerhouses
- Investment support schemes for boilerhouses
- Long-term contracts for heat suppliers using domestic fuels (principle adopted recently in the District Heating Act)



# Measures to promote RES-H generation

- Support to renovation of buildings
- Application of heat pumps in small buildings (without governmental support)
- Energy performance requirements for buildings promote use of RES in buildings



# Measures to promote RES in transport

- Biofuels in transport in 2009 – 26 TJ
- In 2020 – 3912 TJ (93 ktoe)
- Blending of all transport fuels sold in the market as of 2012
- Should be complemented with measures to increase a fuel efficiency of cars
- Application of public transport fleet capable to use pure biofuels or other RES



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