

ENERGY EFFICIENCY - IS IT NECESSITY?

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Answer

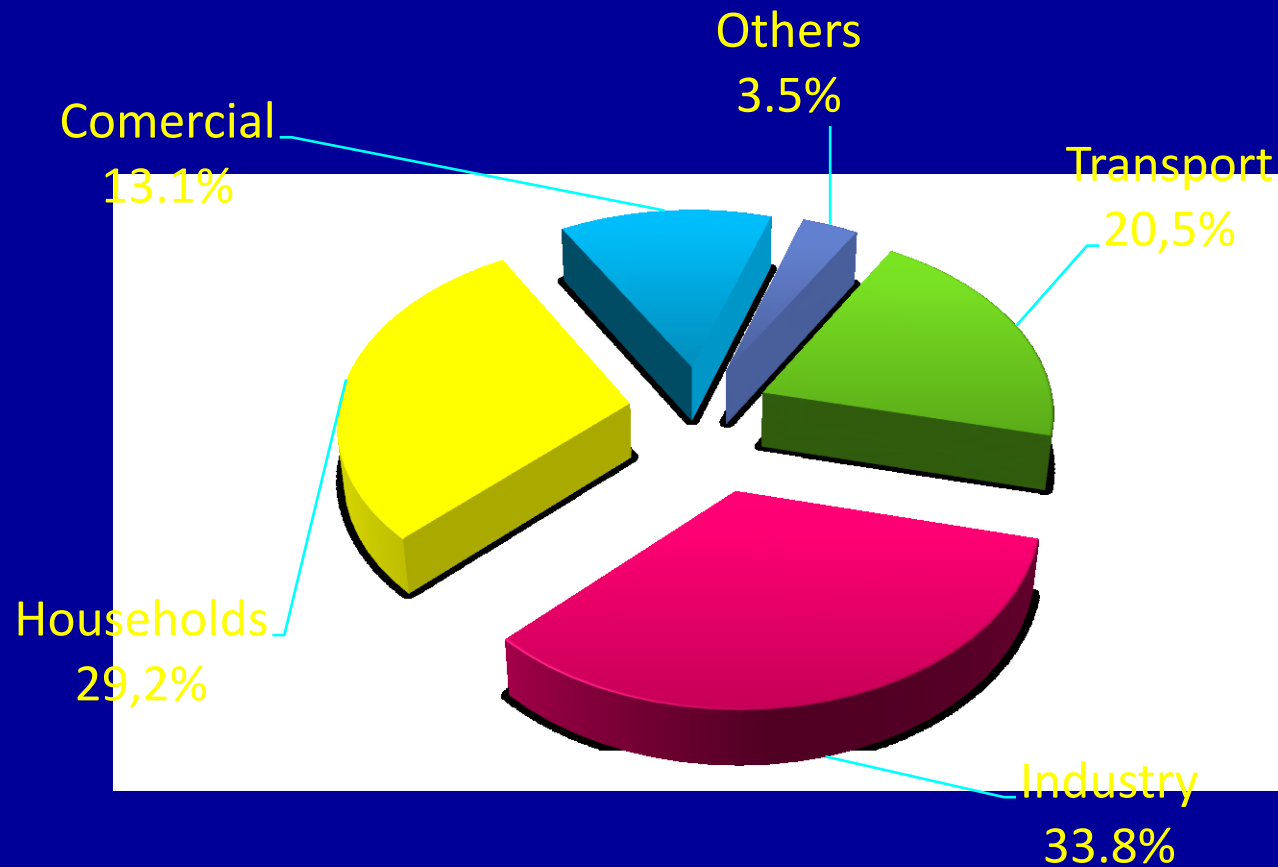
❖ **For the R of Macedonia it is not a simple obligation –**

It's necessity!

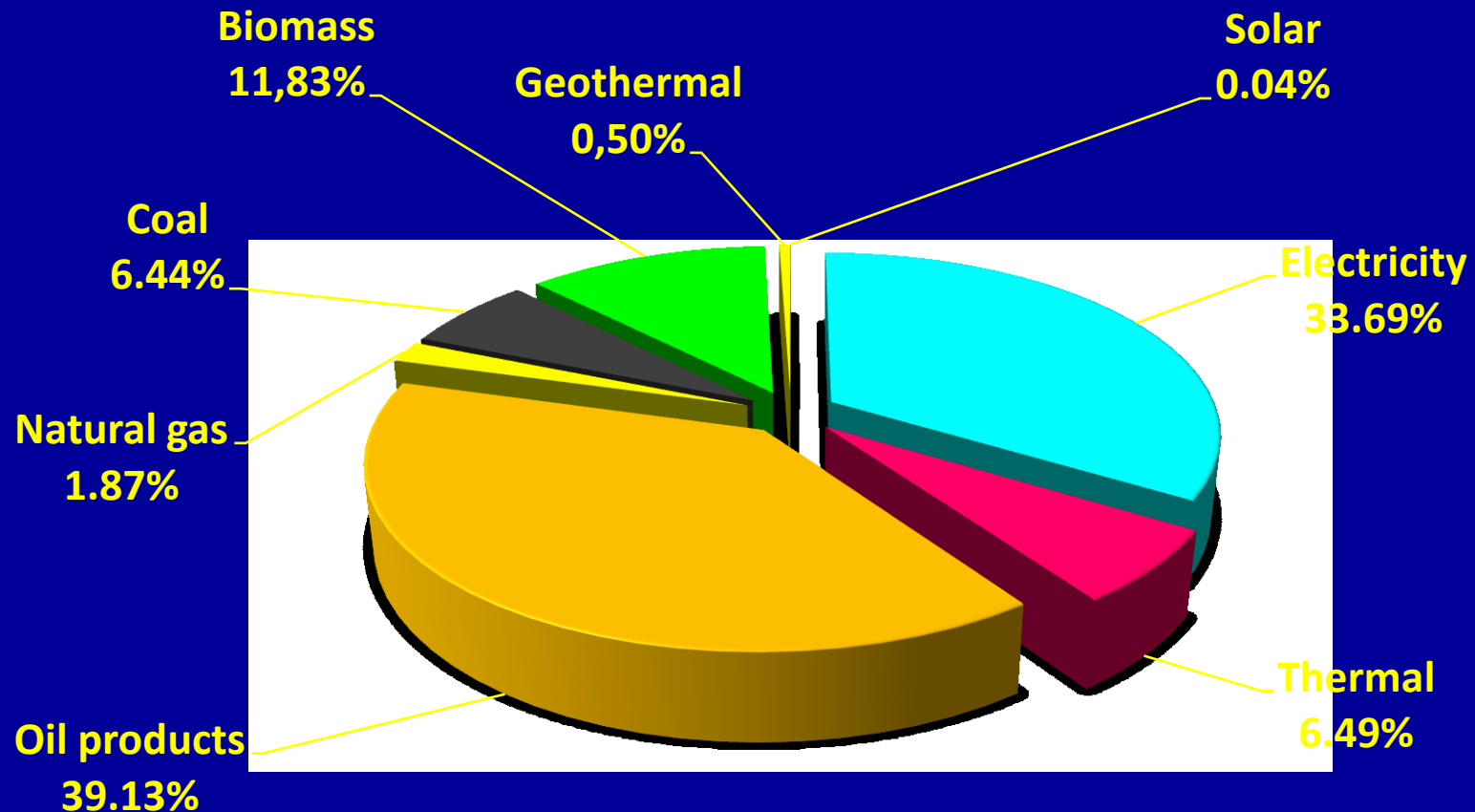
- Because 45% of energy is imported
- Because of limited domestic resources (coal)
- Because hydroelectric potential, although not fully used, is quite limited
- Because annually spend up to 600 million € (2010) for imports of energy / fuel

❖ **For the R of Macedonia EE is viable, profitable, ecology friendly resource**

Determination of national targets! Consumption by sectors



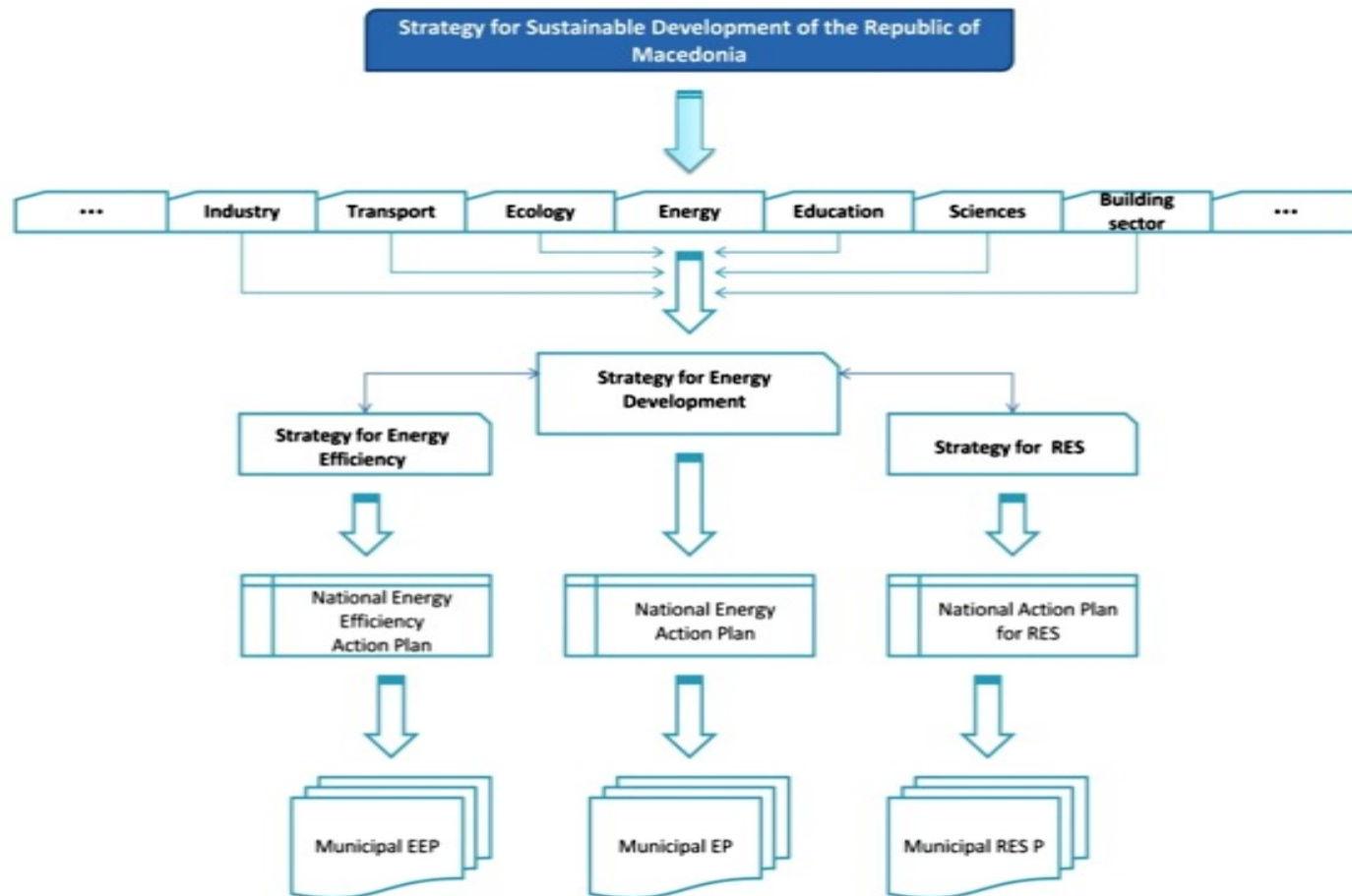
Determination of national targets! Energy carriers



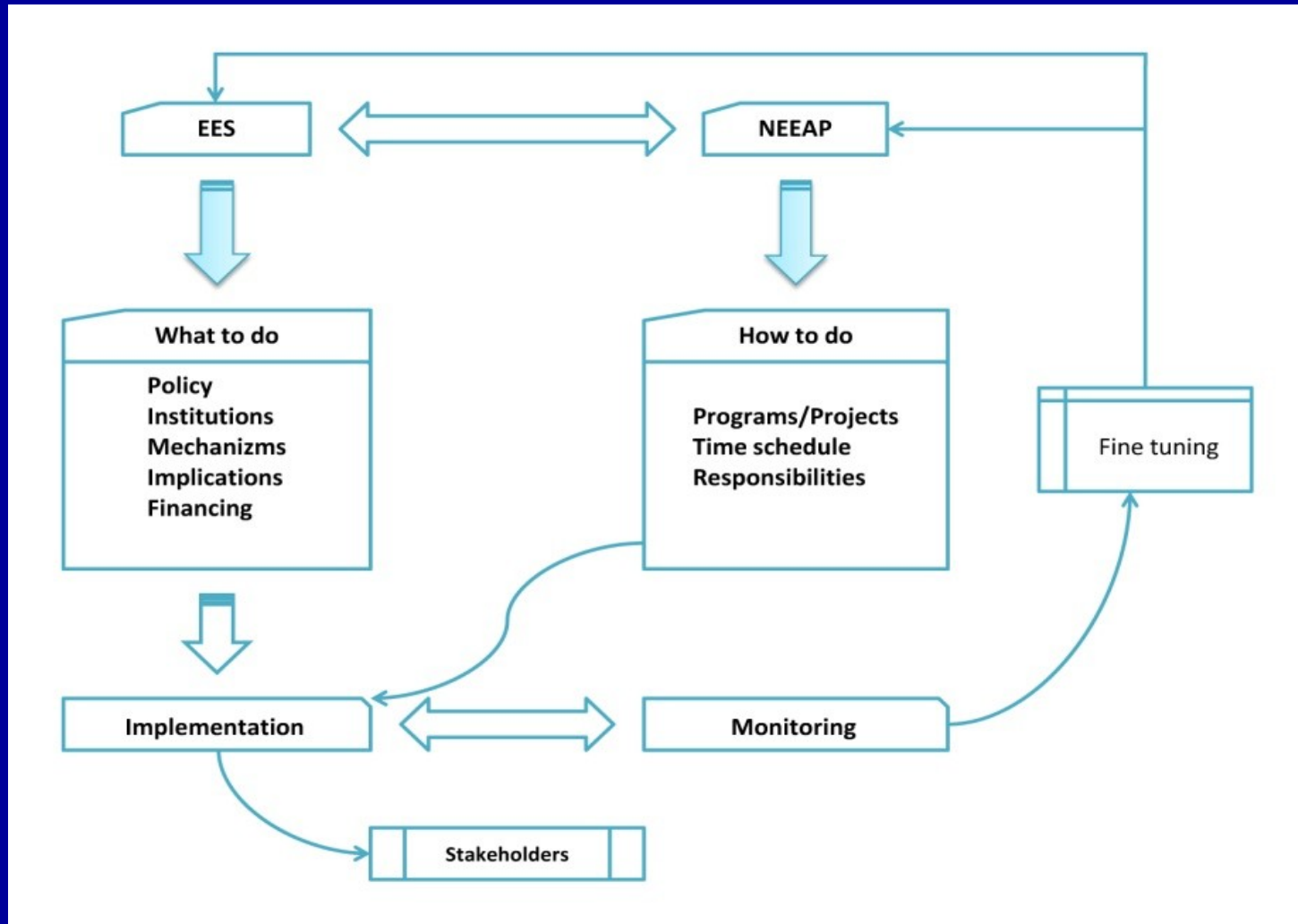
Development Strategy Objective

- ***Adoption of energy efficiency practices through implementation of a series of programs and initiatives:***
 - Creating reduction of import dependence
 - Creating reduction of energy intensity
 - Creating reduction of the non-productive use of electricity
- ***Obtaining:***
 - Reliable energy supply
 - Sustainable economic development
 - Competitiveness of the economy

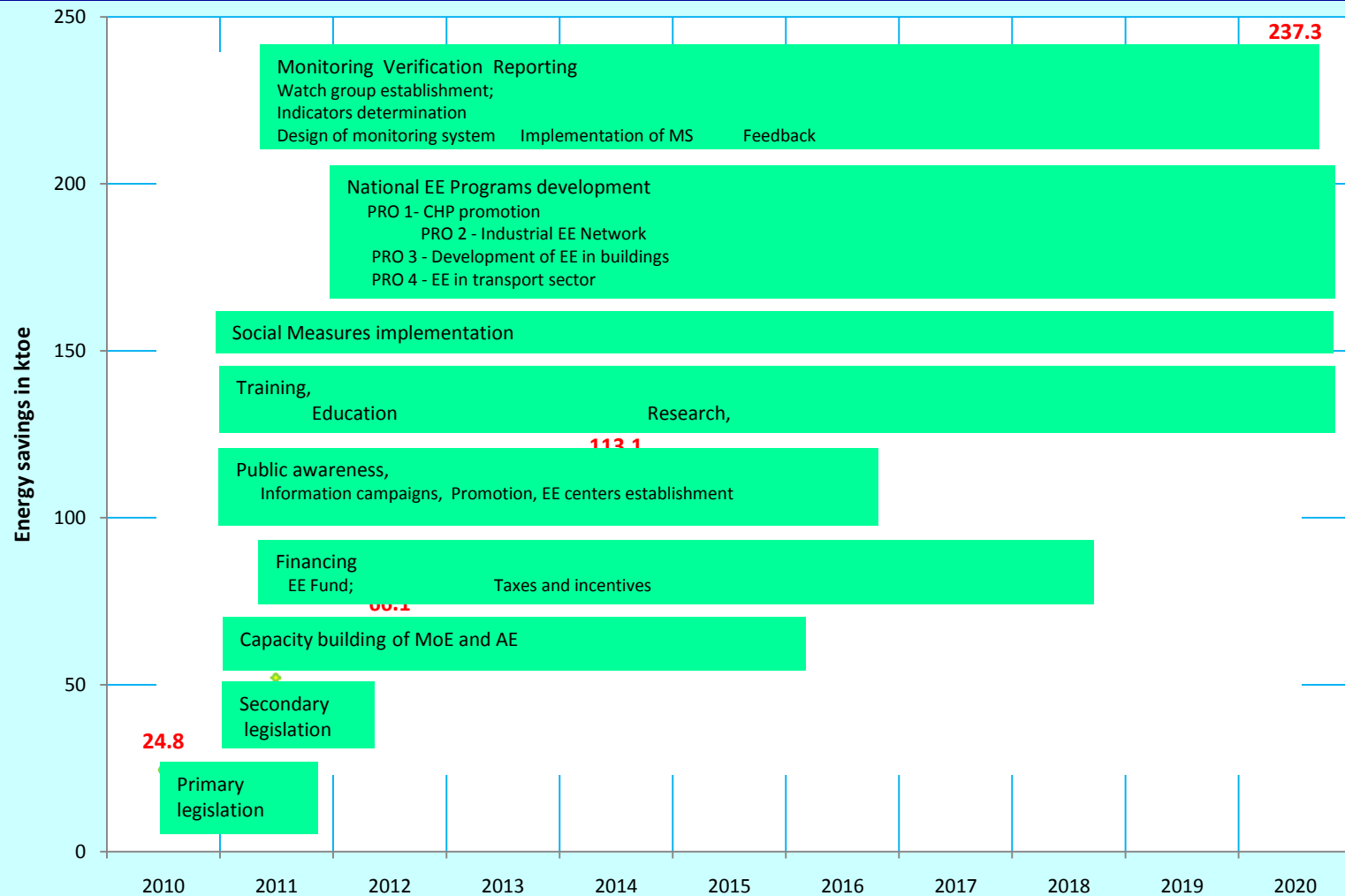
Interconnections



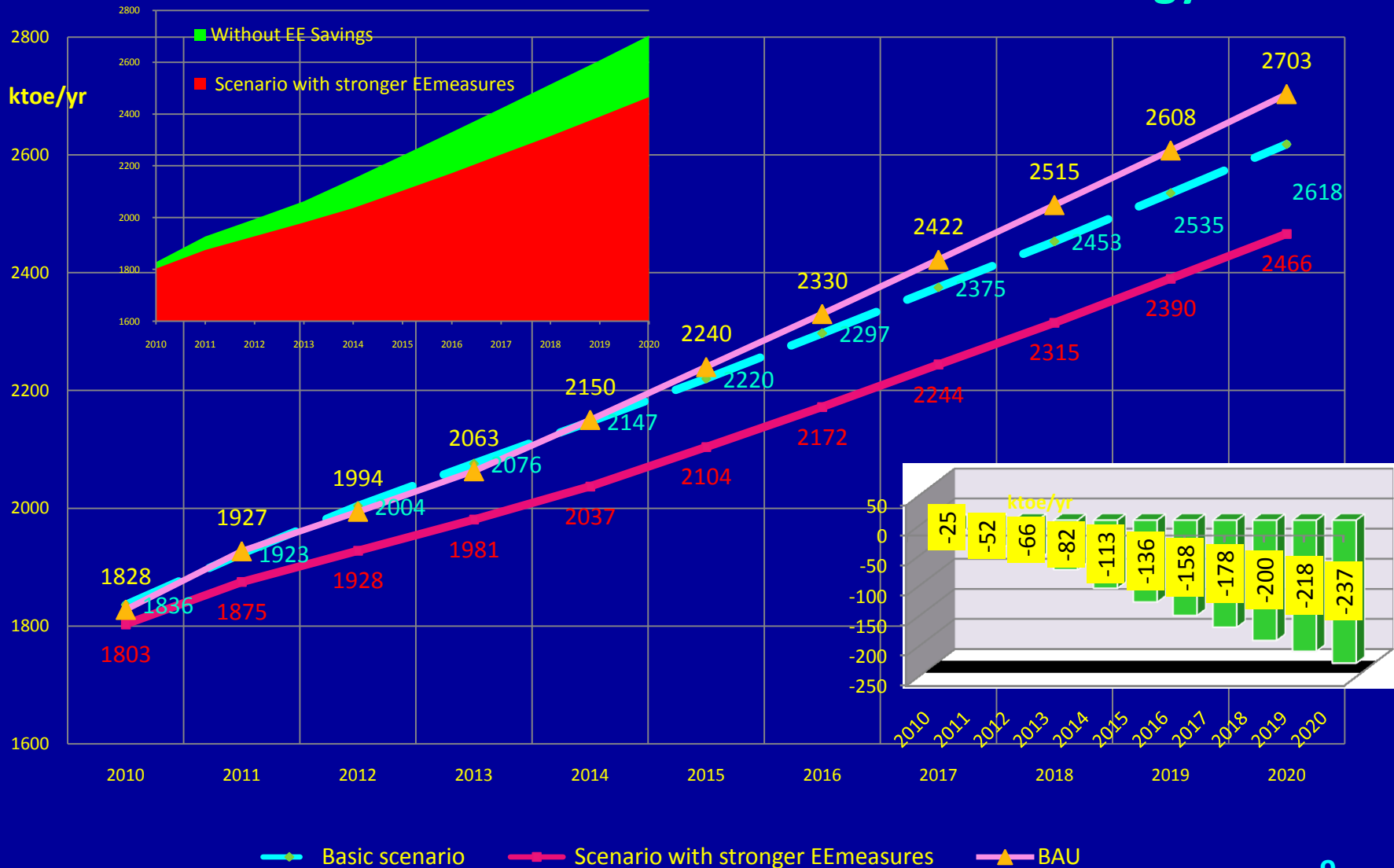
EES and NEEAP



EE Implementation Plan Timeline



Final Energy Needs



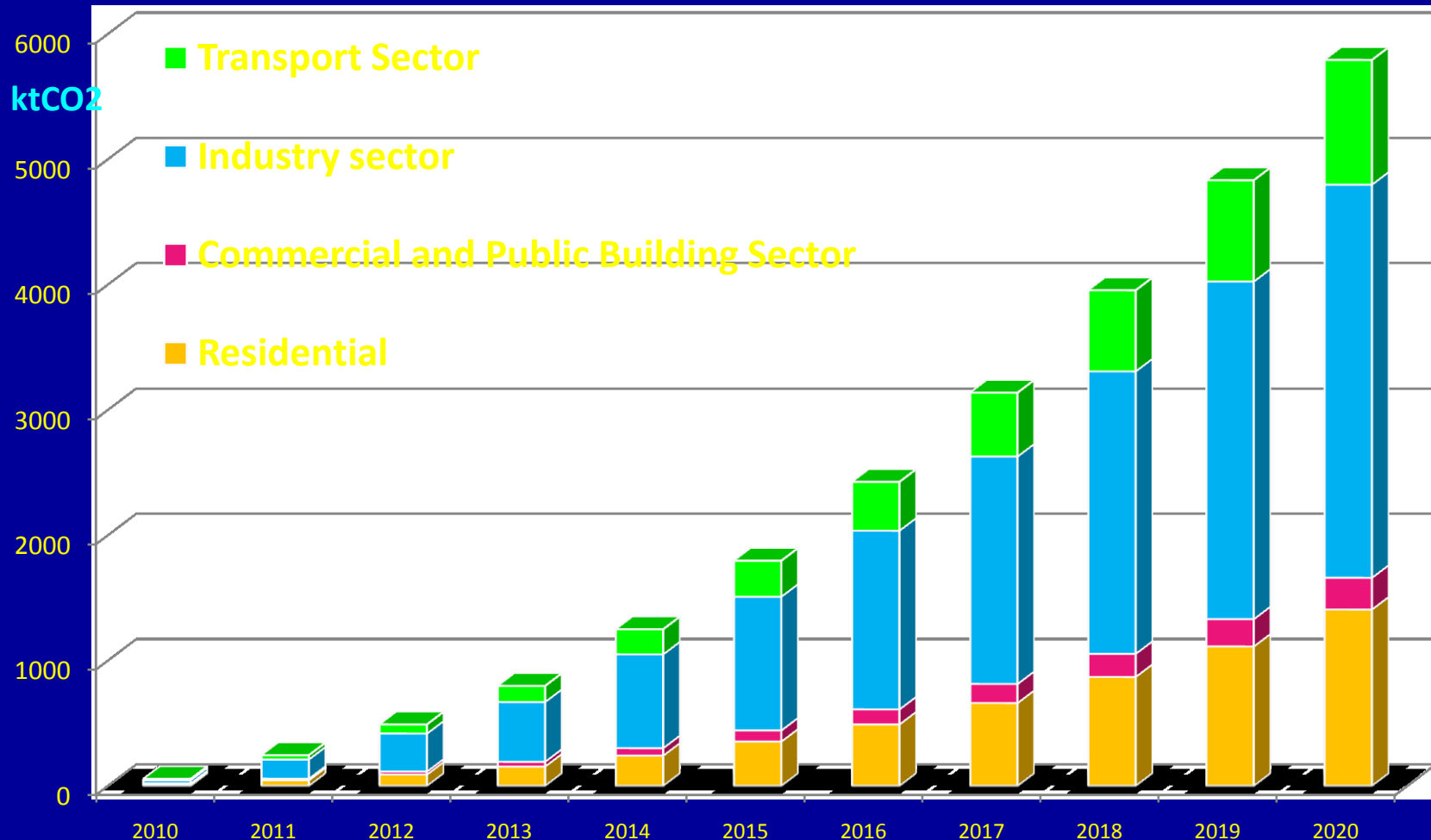
Determination of national targets!

National indicative annual energy savings target 2018		147
National intermediate indicative annual energy savings target 2012		65,4
Packages of measures to improve EE planned for achieving the target by sectors	Annual energy savings expected by end of	
	2012	2018
Residential sector	7,63	40,51
Commercial and services	4,96	24,19
Industry	40,96	90,45
Transport sector	12,55	44,63
Total ESD energy savings expected in ktoe:	66,10	199,78

Cumulative Economic Performance



Added value!
Reduction of CO₂ emission



Resume

- Energy savings in 2018 → 199.78 ktoe =
- 2317 GWh (2 units of 220 MW)
- Necessary cumulative investments → 406.5 M €
- Governamental participation → 20%
- Private sector and other financial mechanisms → 80%
- Cumulative financial savings → 834.4 M €
- Cumulative financial savings (Liberalized market prices) → 1360 M €
- Cumulative reduction of CO₂ emission till 2018 → 3954 ktCO₂

Instead of message

- Can't and must not alone change the world!
- It is enough to change our own actions!
- To allow our example to inspire others to do the same!
- Small simple actions like:
replacing light bulbs with more efficient, choosing a car that consumes less fuel, using a bicycle, to insulate the house
are those that make changes!

So - let's start!

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