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# GERMANY AND THE “ENERGIEWENDE” – TARGETS AND PROGRESS

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## **International Symposium on Energy Efficiency**

Washington, DC  
June 26, 2018

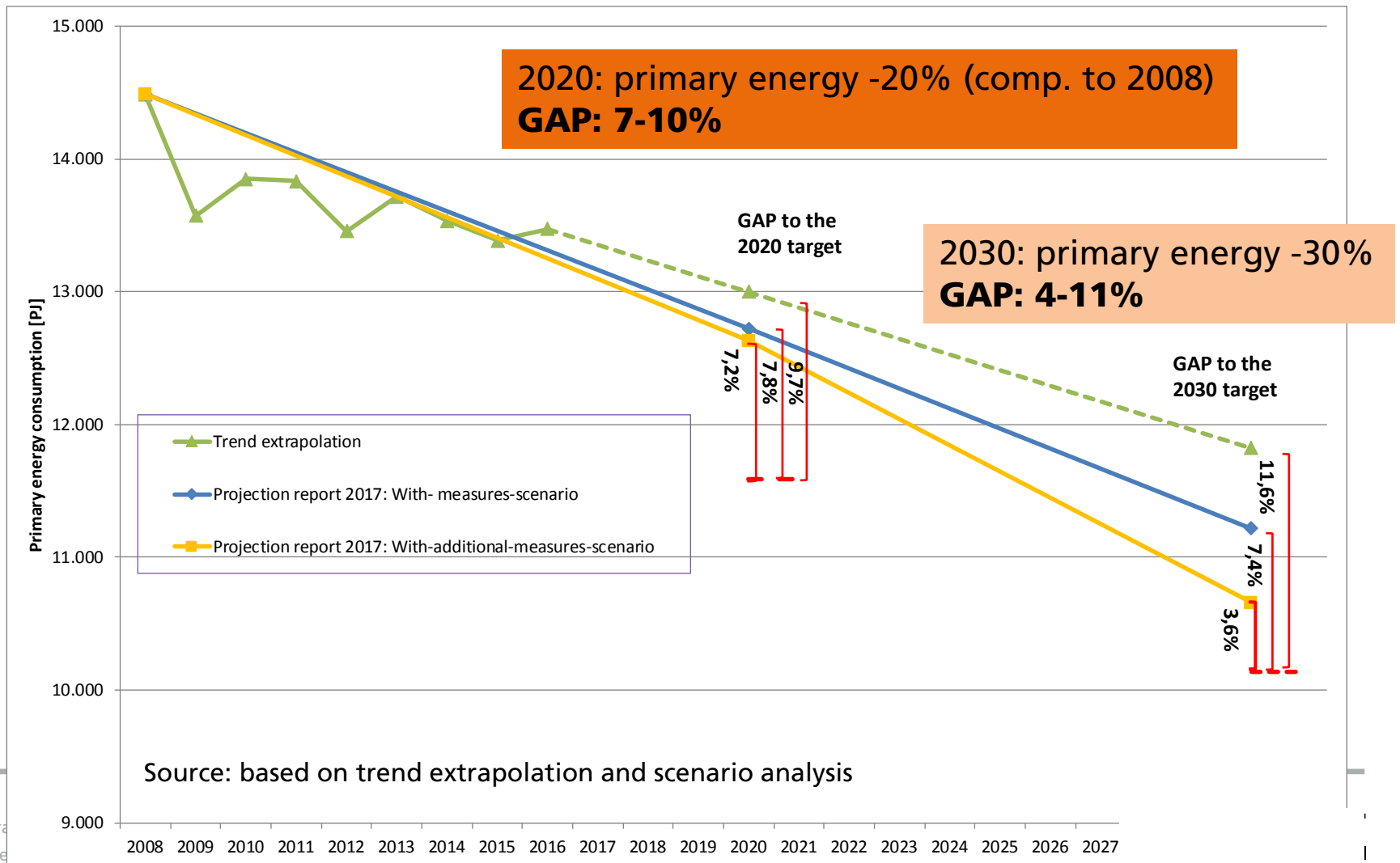
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# MILESTONES OF THE GERMAN ENERGY TRANSITION (“ENERGIEWENDE”)

Date	Action of the German Government
Sept. 2010	<b>Energy Concept</b> including ambitious targets for GHG emissions, renewable energies and energy efficiency for 2020 and 2050
March 2011	Decision on a <b>phase-out of nuclear energy</b> by 2022
July 2011	Decisions on accelerating the transformation of the energy system ⇒ starting point of the <b>German “Energiewende”</b>
Oct. 2011	Implementation of an official <b>Monitoring Process</b> ⇒ yearly check of the success of the energy transition (targets / policies)
Dec. 2014	New programs to achieve 2020 targets: <b>National Action Plan on Energy Efficiency (NAPE)</b> Action Program on Climate 2020 (APC)
August 2016	<b>Green Paper on Energy Efficiency</b> ⇒ perspective 2030
Nov. 2016	<b>Climate Action Plan 2050:</b> GHG reduction targets for 2030 by sector
March 2018	Coalition Agreement of the new government: Ambitious Energy Efficiency Strategy ⇒ <b>„Efficiency First“-Principle + NAPE 2.0</b>

# CURRENT GAP TO THE GERMAN ENERGY EFFICIENCY TARGET 2020 AND 2030



# Why is Germany missing the energy efficiency (and climate) target for 2020?

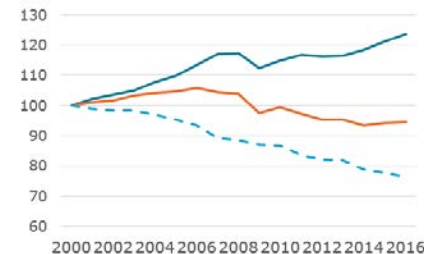
The targets were set in 2010 based on a scenario analysis

BUT.....

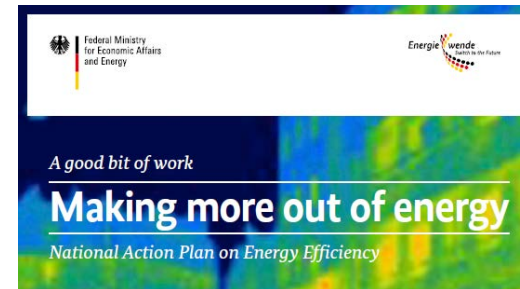
**ACTIVITIES** (GDP, population, traffic...) increased much more than expected



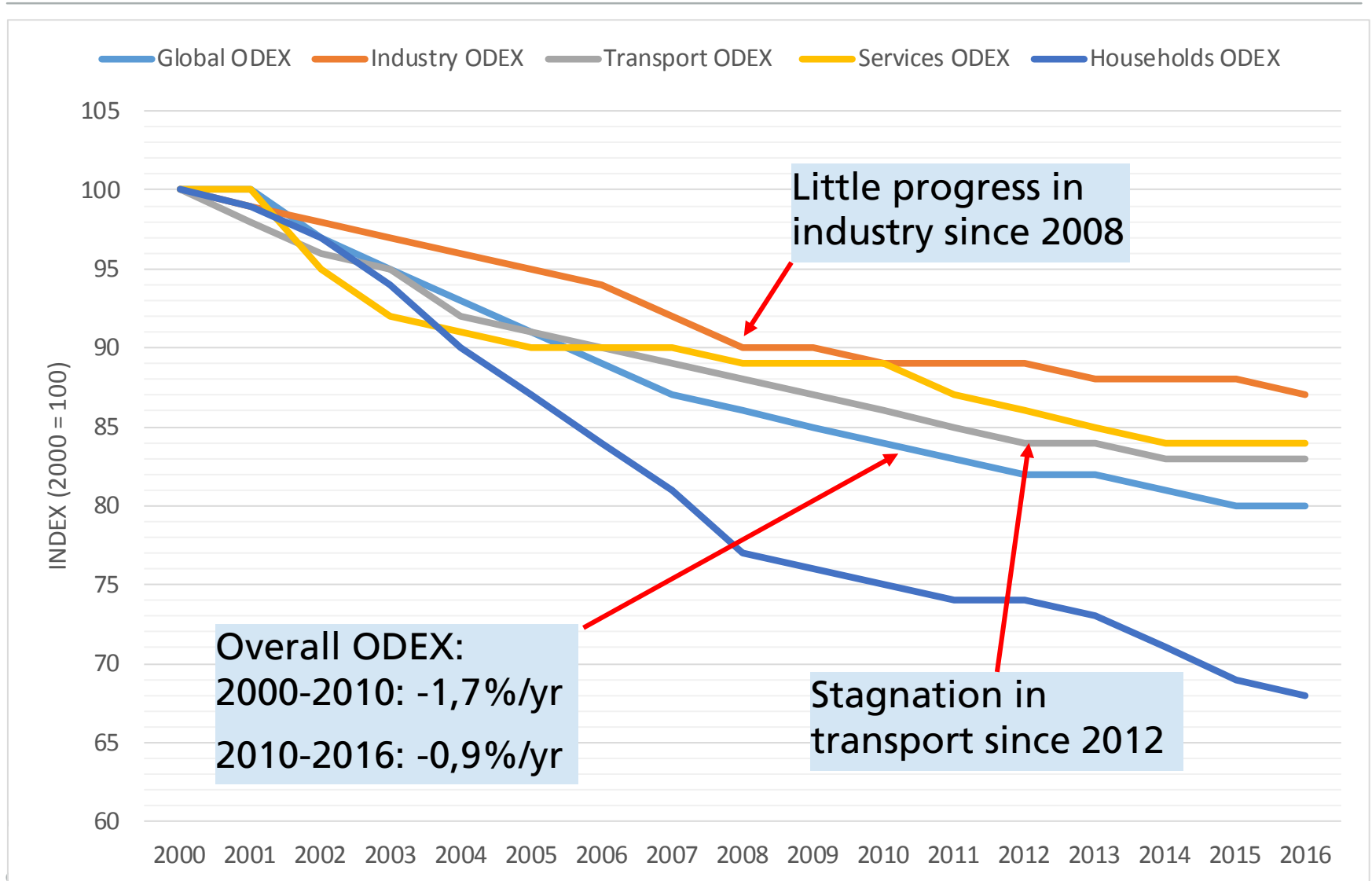
**ENERGY EFFICIENCY PROGRESS** was lower than expected



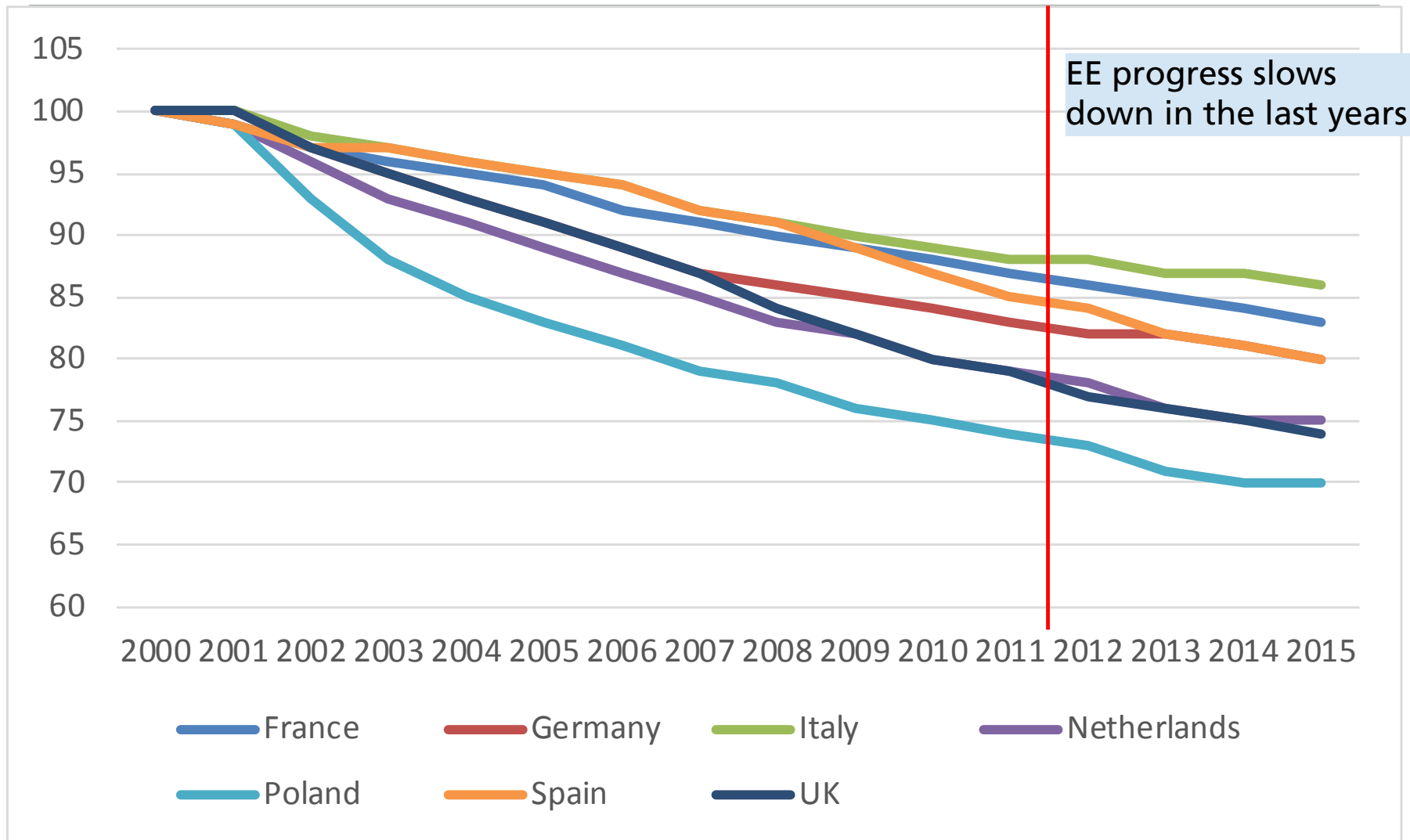
**ENERGY EFFICIENCY POLICIES**  
New national policies from NAPE delivered less and later than expected



# Energy efficiency progress in Germany measured by the energy efficiency index ODEX



# Development of the global ODEX in large EU countries 2000-2016



# EU energy efficiency targets and policies

## EU energy efficiency targets

2020: Reduction by 20% comp. to a reference development

2030: Reduction by 27% comp. to the same reference

Increase to **32.5%**

Continuation of Art. 7  
beyond 2020 ensured

## Key EU Directives for Energy Efficiency

### OVERALL

Energy Efficiency Directive (EED)

### BUILDINGS

Energy Performance of Buildings Directive (EPBD)

### APPLIANCES

Ecodesign Directive  
Energy Labelling Directive

### CARS

Emission Performance Standards

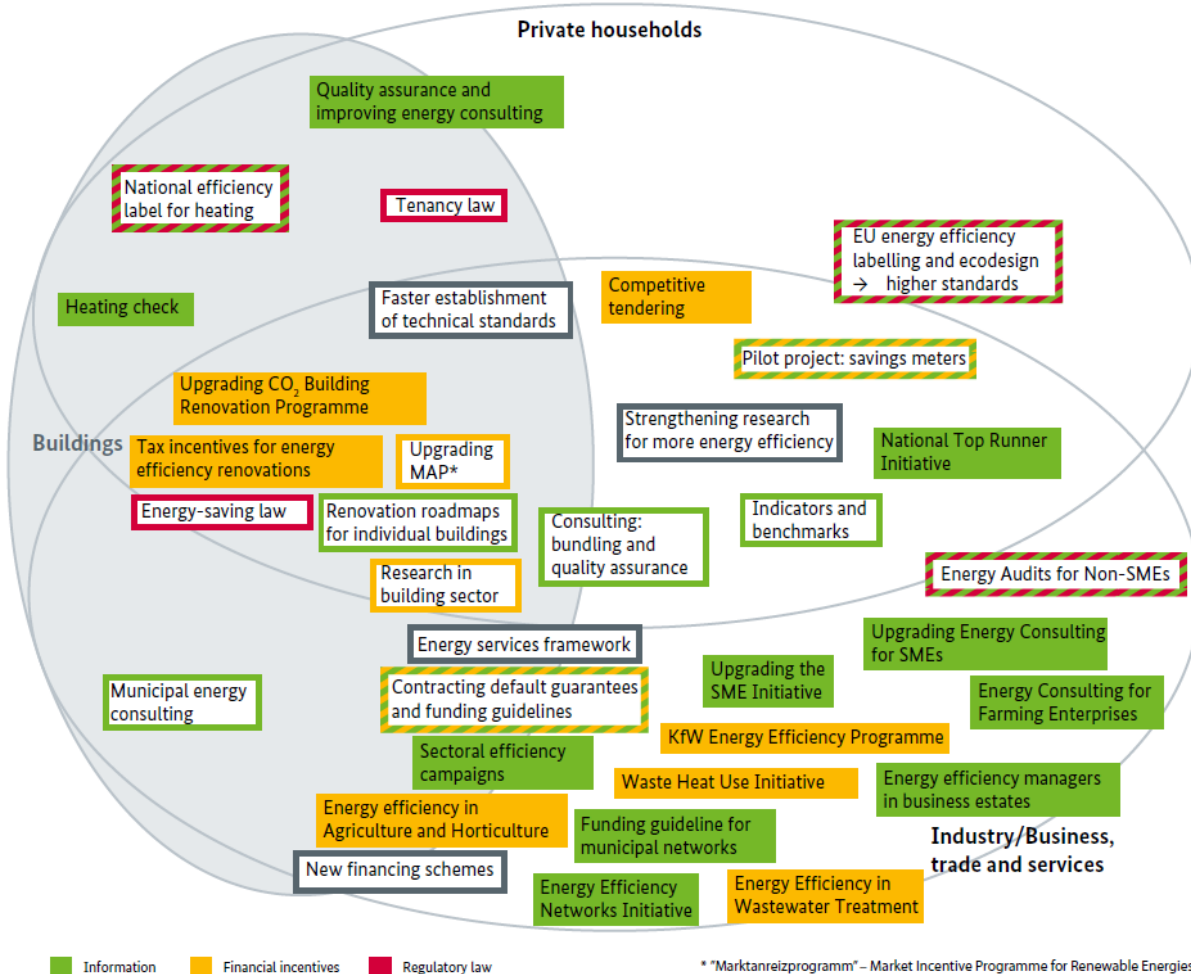
## THE EU „CLEAN ENERGY PACKAGE“

⇒ decisions in the 2<sup>nd</sup> half of June 2018

New rules for EU Governance:

- „**Energy Efficiency First**“ as planning principle for infrastructure
- Improved target monitoring
- Additional EE measures if 2030 target is at risk not to be met

# The present policy mix for energy efficiency in Germany



**(EU) REGULATION**

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**FINANCIAL INCENTIVES**

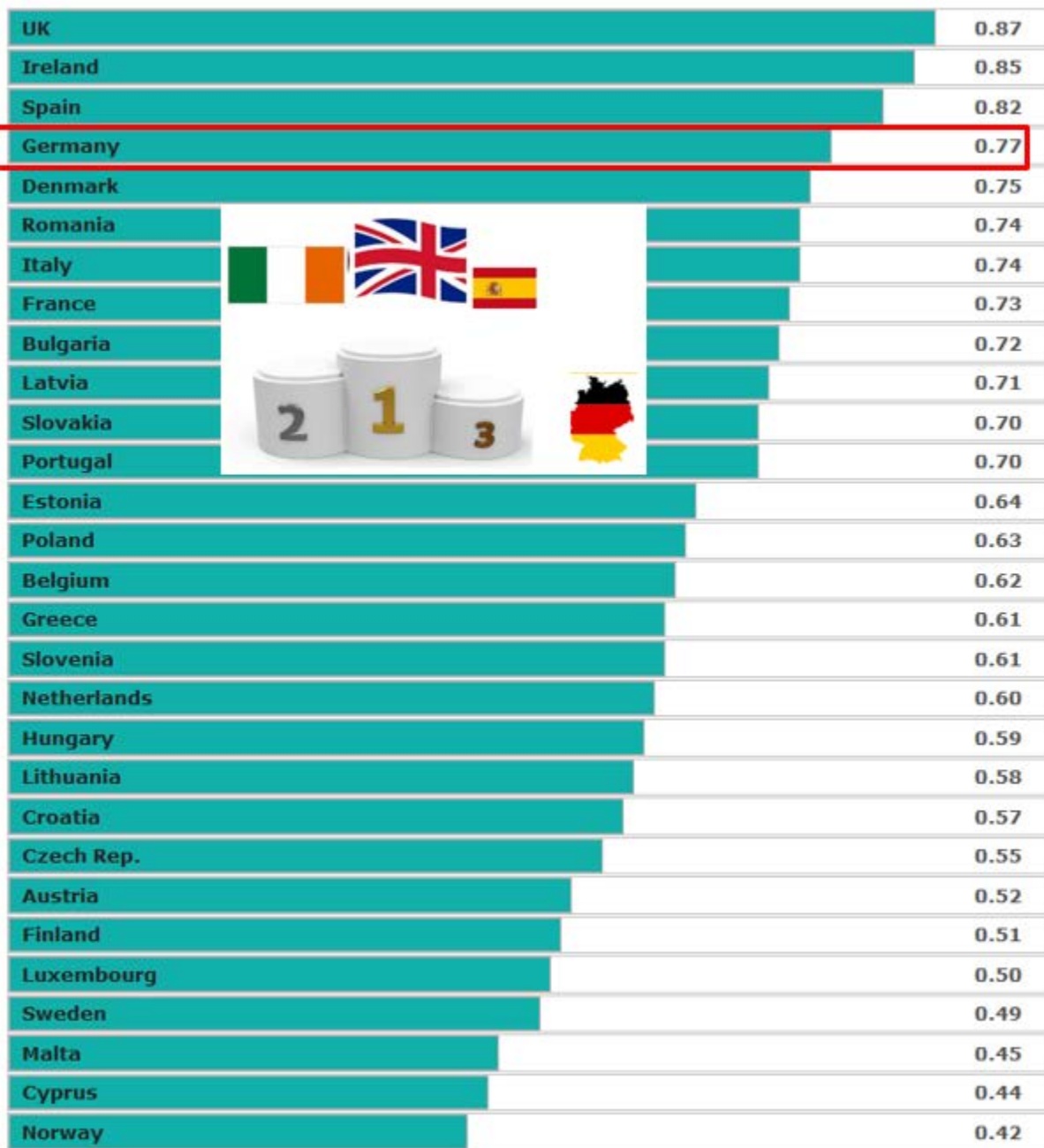
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**INFORMATION**

Source: BMWi, National Action Plan on Energy Efficiency (NAPE)



# ODYSSEE-MURE Scoreboard for Energy Efficiency in the EU



The ranks for Germany

Overall: **4** (Italy: 7)

Level: **12** (Italy: 4)

Trend: **26** (Italy: 25)

Policies: **2** (Italy: 7)

# Conclusions

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- The overall good position of Germany in the ACEEE and ODYSSEE-MURE ranking is mainly due to a good scoring on energy efficiency policies ⇒ but policies must deliver and are not yet sufficient to reach the national 2020 and 2030 targets
  - Energy efficiency trends in Germany have considerably slowed down, especially in industry, but also in transport ⇒ specific action is needed
  - “Energy Efficiency First” as a guiding principle both in Germany and the EU is an important step
  - But: More ambition is needed to reach at least the 2030 target in Germany ⇒ need for additional policies which are unpopular from today’s view (e.g. CO<sub>2</sub> taxes or energy efficiency obligations)
  - Tough long-term energy efficiency and climate targets in Germany cannot be achieved without a common procedure in Europe (and beyond?) ⇒ ambitious EU targets and regulations are a key element for the German energy efficiency strategy
  - The EU approach was just rewarded by a leading position of the EU Member States in the ACEEE International Energy Efficiency Scorecard
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# Thank you for your attention

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## Contact

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ODYSSEE-MURE

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