



Federal Ministry  
for Economic Affairs  
and Energy



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MADE IN GERMANY

# Energy Efficiency & Renewable Energies in Germany at a Glance

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for Economic Affairs and Energy  
eclareon GmbH

November, 20<sup>th</sup> 2018 in Madrid, Spain



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# Overview

1. Energy Efficiency and Renewable Energy
2. Energy Solutions – Made in Germany
3. The German Delegation



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# Energy Efficiency & Renewable Energies in Germany



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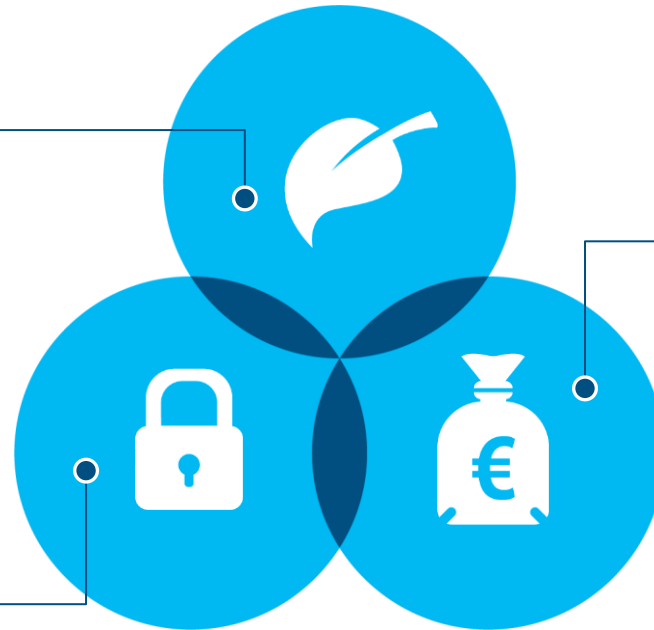
# The *Energiewende* combines security of supply, cost-effectiveness and environmental protection

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Environmentally  
sound

Secure and  
reliable

Affordable and  
cost-effective



# The energy transition triad combines efficiency, direct use of renewables and sector coupling

Efficiency first



Direct use of renewables

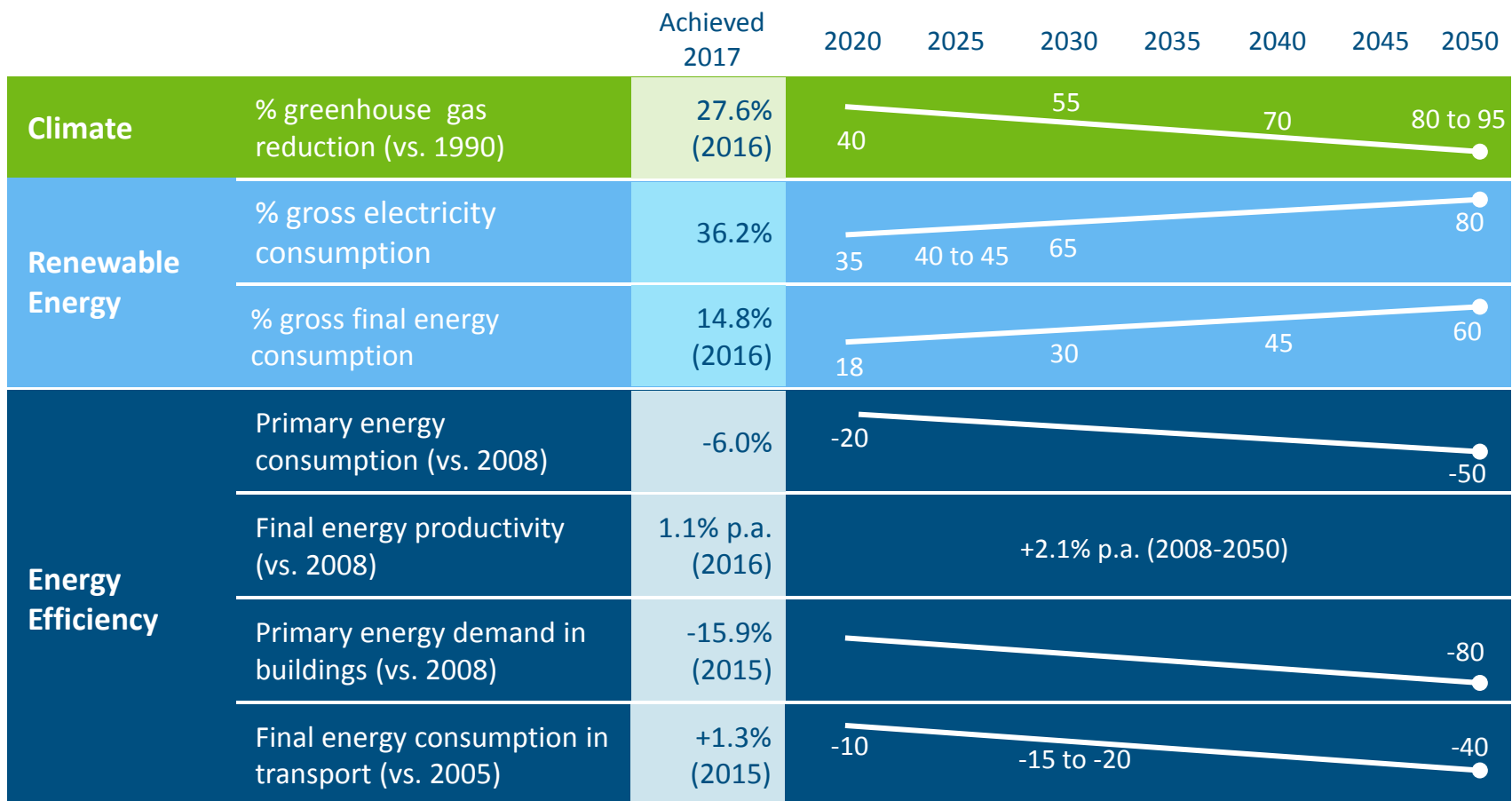


Sector coupling



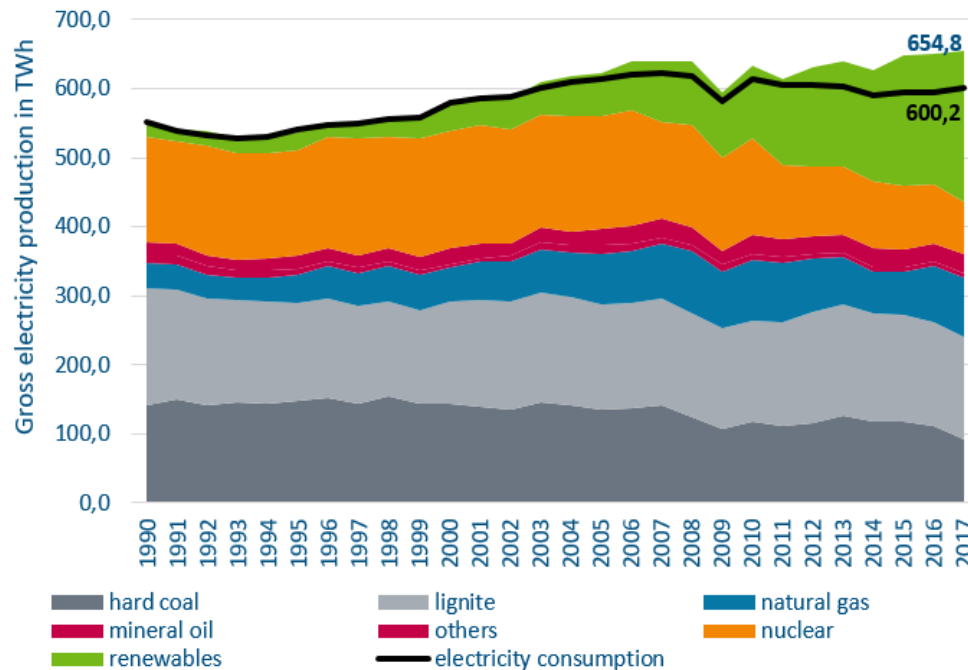
Source: BMWi 2017

# The *Energiewende* is Germany's long-term energy and climate strategy

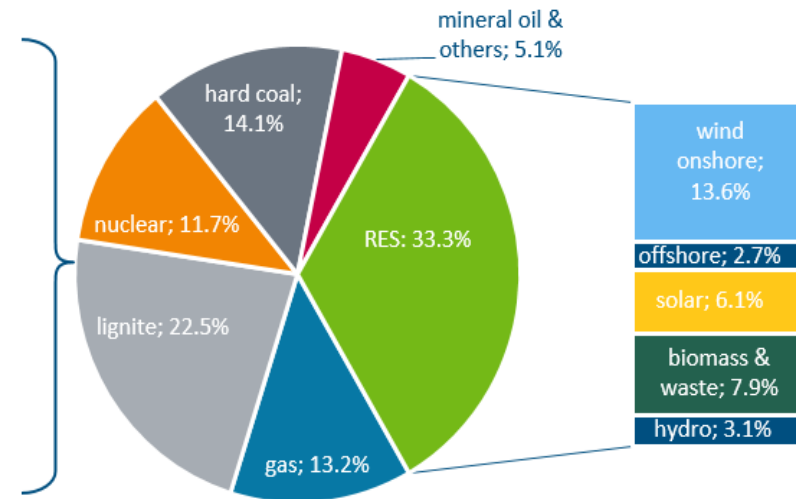


Source: Ecofys 2018 based on BMWi 2016, UBA 2018, AGEb 2018

# Renewables have become Germany's No. 1 source of electricity

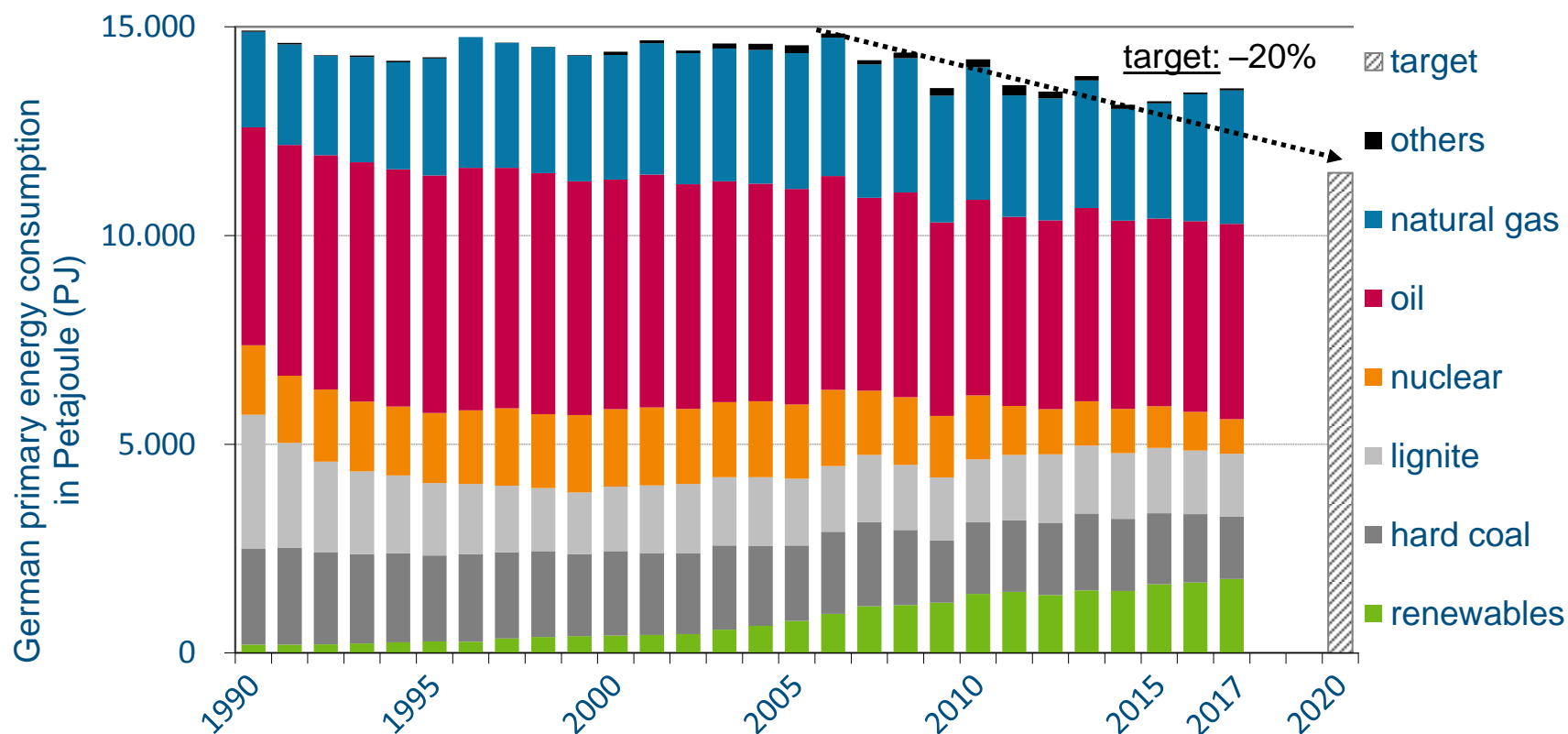


Electricity mix in 2017  
(654.8 TWh in total)



Source: Ecofys 2018 based on BMWi 2018

# Primary energy consumption is declining



Source: AGEBA 2018



# Main federal-level energy efficiency measures cover all key areas



## Buildings

- Energy-saving legislation
- Financial support programmes (KfW, MAP)



## Products and appliances

- Active implementation of EU energy efficiency labelling
- National Top Runner Initiative



## Industry and business

- Tendering scheme
- KfW credits and loans
- Obligatory audits and energy efficiency networks

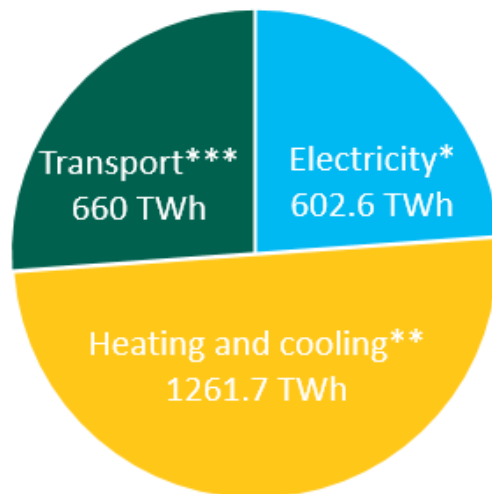


## Transport

- Motor vehicle taxation
- Regulation of consumption

# The use of renewable energies in the heating & cooling and transport sectors needs to be increased

Energy consumption in Germany in  
2017: 2524.3 TWh



\* Gross electricity consumption

\*\* Final energy consumption for heating and cooling

\*\*\* Final energy consumption transport

Transport



Share of renewables: 5.2%  
34.6 TWh

Electricity



Share of renewables: 36.2%  
217.9 TWh

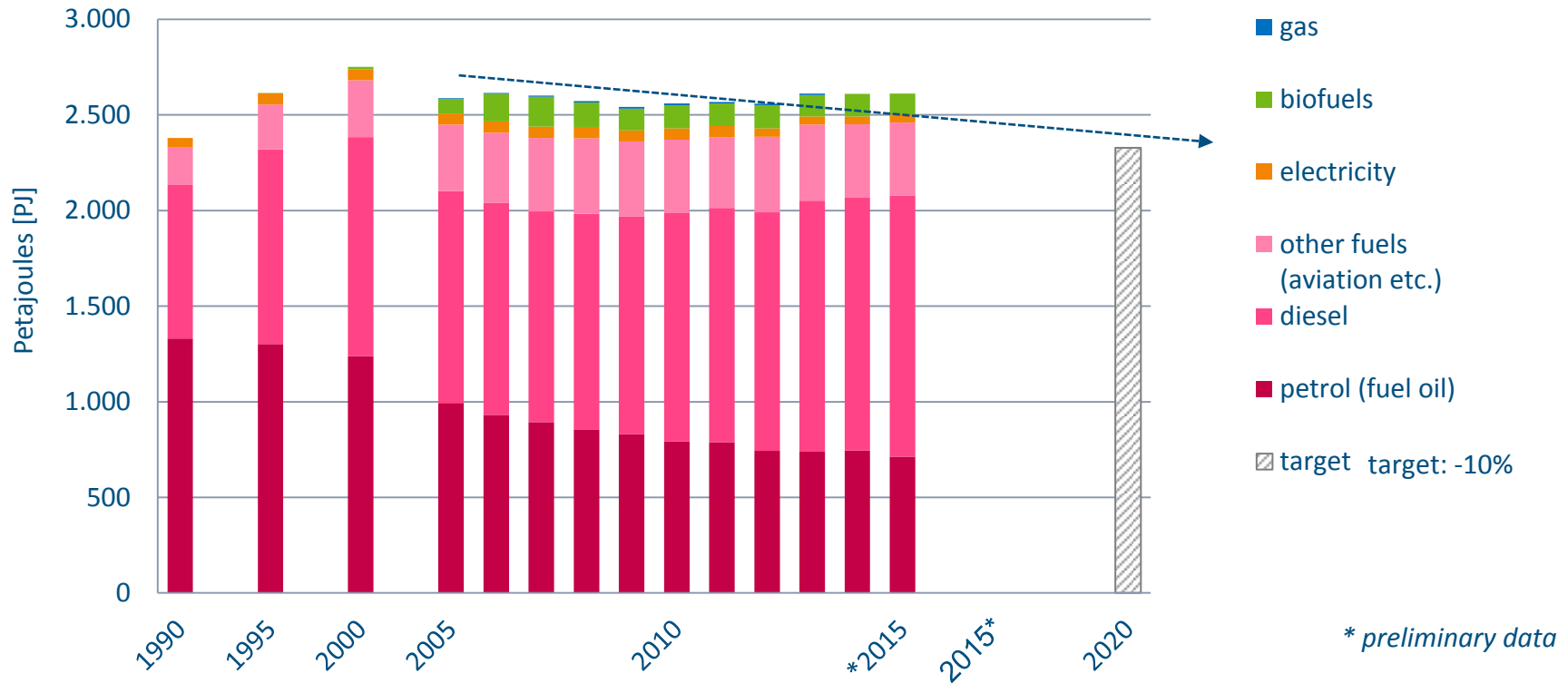
Heating and cooling



Share of renewables: 12.9%  
162.2 TWh

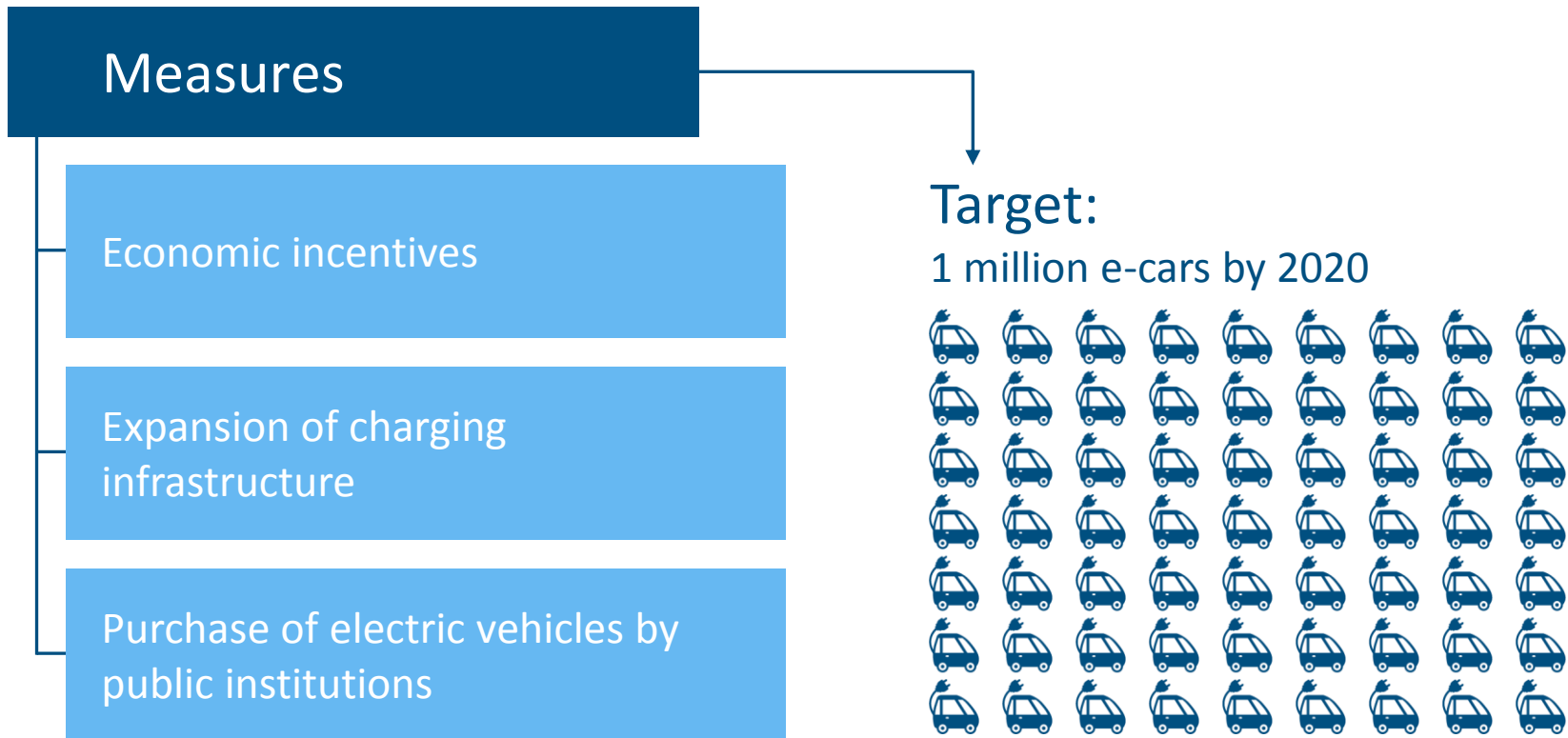
Source: Ecofys based on AGEE-Stat 2018

# Additional measures are needed in the German transport sector to achieve the 10% reduction target



Source: AGEBA 2016

# A comprehensive package of measures supports the market launch of electric mobility in Germany



Source: Ecofys 2017 based on BMWi 2017



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# Energy Solutions Made in Germany



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# Objectives of the initiative

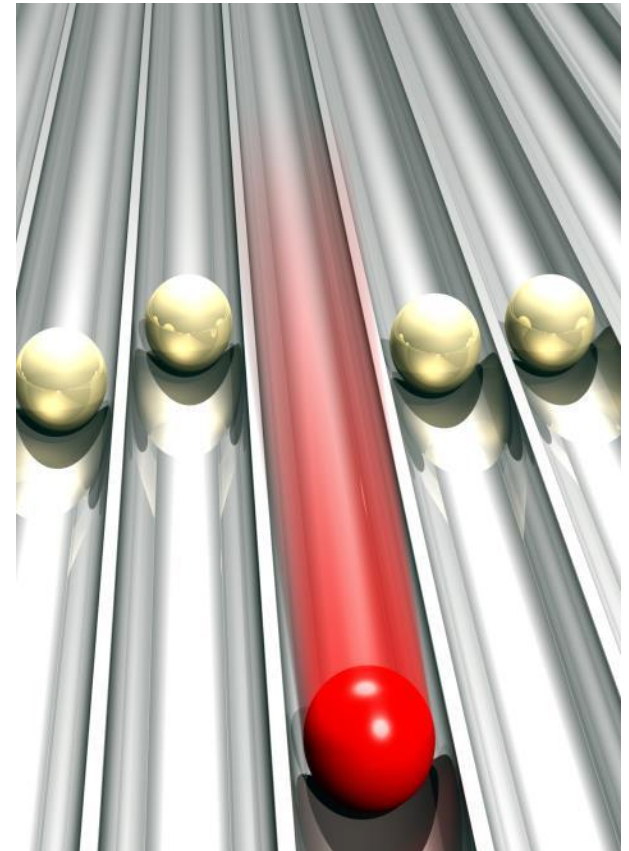
**Promotion** of renewable energy and energy efficient technologies

**Showcase** sustainable energy solutions

**Implementation** of projects

**Know-how transfer**

Contribution to international **climate protection**



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# Instruments offered by the initiative



✓ Foreign trade fairs



✓ Networking opportunities



✓ Know-how transfer  
✓ Information  
✓ Capacity building



✓ Trade missions

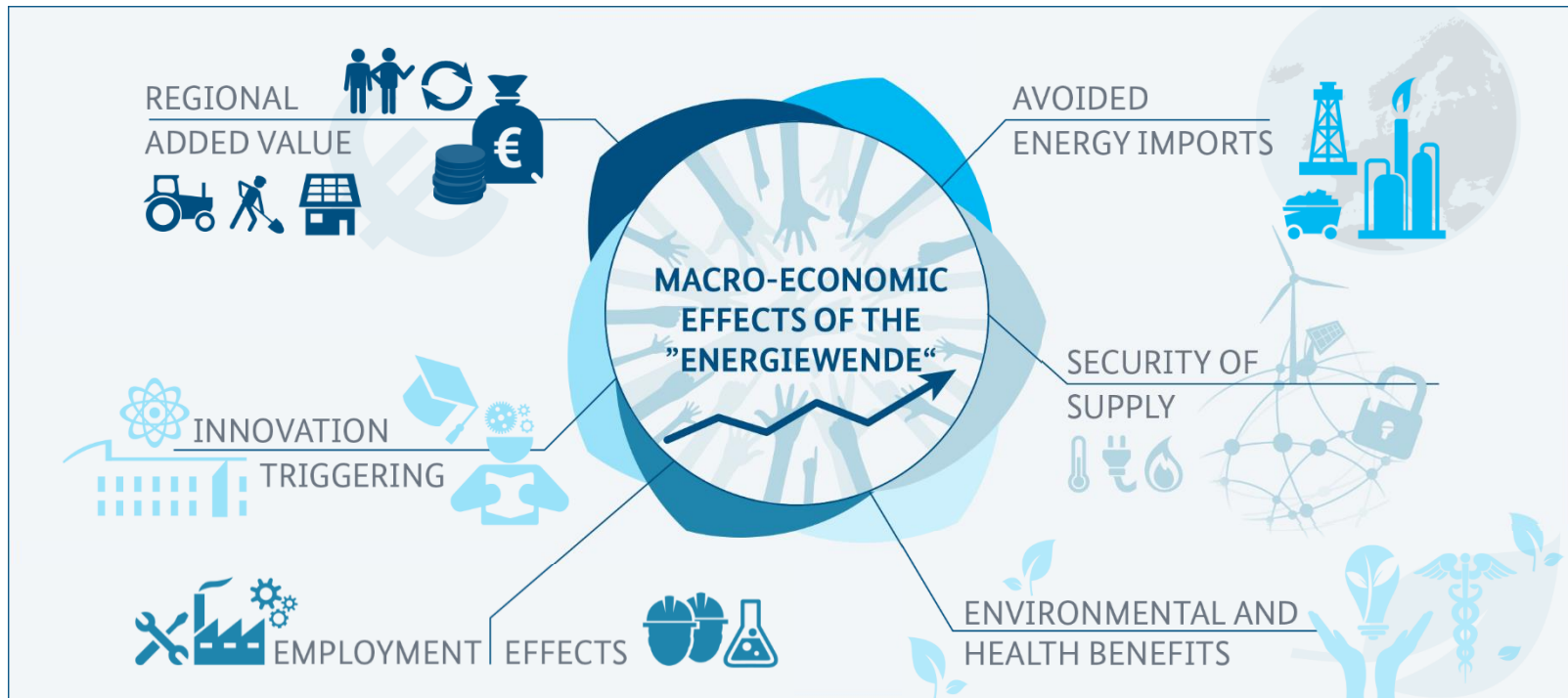


✓ Fact finding missions



✓ Project development & flagship projects

# Macro-economic benefits



Source: BMWi 2014

The energy transition has positive effects on various levels of the economy.





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# The German Delegation



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# Participating German Companies

**RTB GmbH**

**EVAKON GmbH**

**choice GmbH**

**mobileee GmbH**

**chargeIT GmbH**

**Akryonics GmbH**

**Meinke energy GmbH**

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# Thank you for your kind attention!

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