



Federal Ministry
for Economic Affairs
and Energy



MITTELSTAND
GLOBAL
ENERGY SOLUTIONS
MADE IN GERMANY

Energy Transition made in Germany – An Introduction

Markus Winter,
15 October 2018,
Auckland



Agenda

1. „energy solutions - made in Germany“ - the initiative
2. Germany's *Energiewende* – reasons, goals, long term strategy
3. Energy efficiency and renewable energies in Germany - status quo & current measures



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The Initiative „energy solutions – made in Germany“



“energy solutions made in Germany”

Aims of the initiative

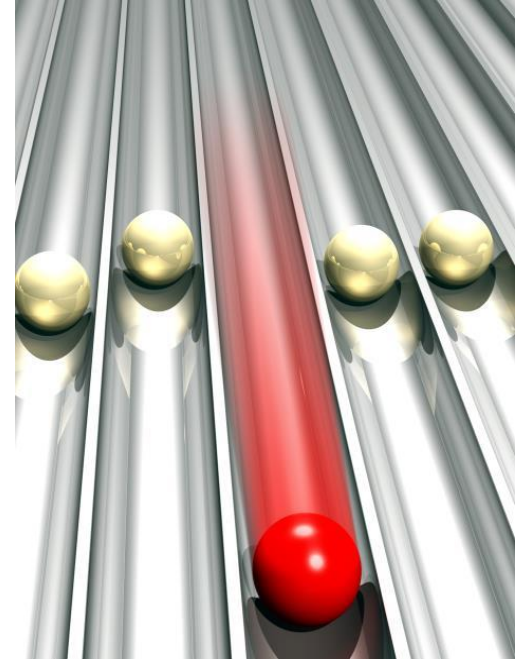
Promotion of renewable energy and energy efficient technologies

Showcase sustainable energy solutions

Implementation of projects

Know-how transfer

Contribution to international **climate protection**



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

Information

www.german-energy-solutions.de

Online information

- ✓ Information about technologies made in Germany
- ✓ Current news and upcoming events e.g. fact finding missions

Company directory





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Germany's *Energiewende*



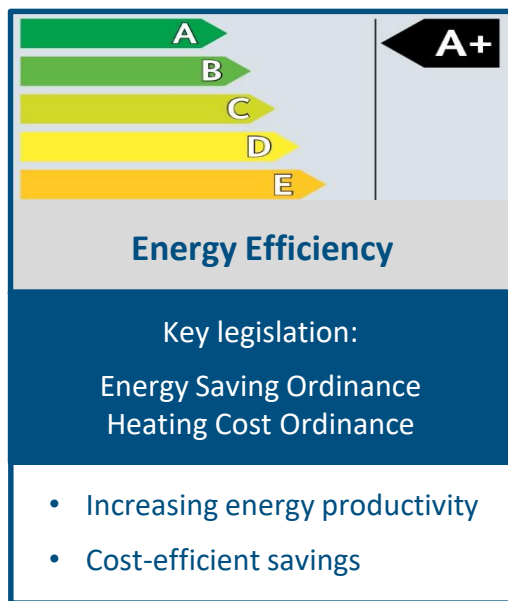
Five reasons for the *Energiewende*

- Development of new technologies as new sources of growth and employment
- Reduce dependency on energy imports
- Reduce carbon emissions and reach climate protection targets
- Phase-out nuclear power generation
- Energy policy can be both sustainable and economically successful

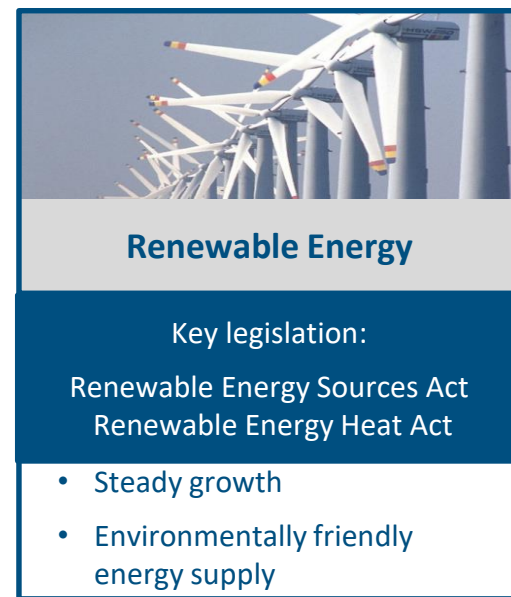


Climate protection is a strong driver for the Energiewende complemented by strong economic and social drivers for change.

Energy efficiency and renewables secure a sustainable energy transition

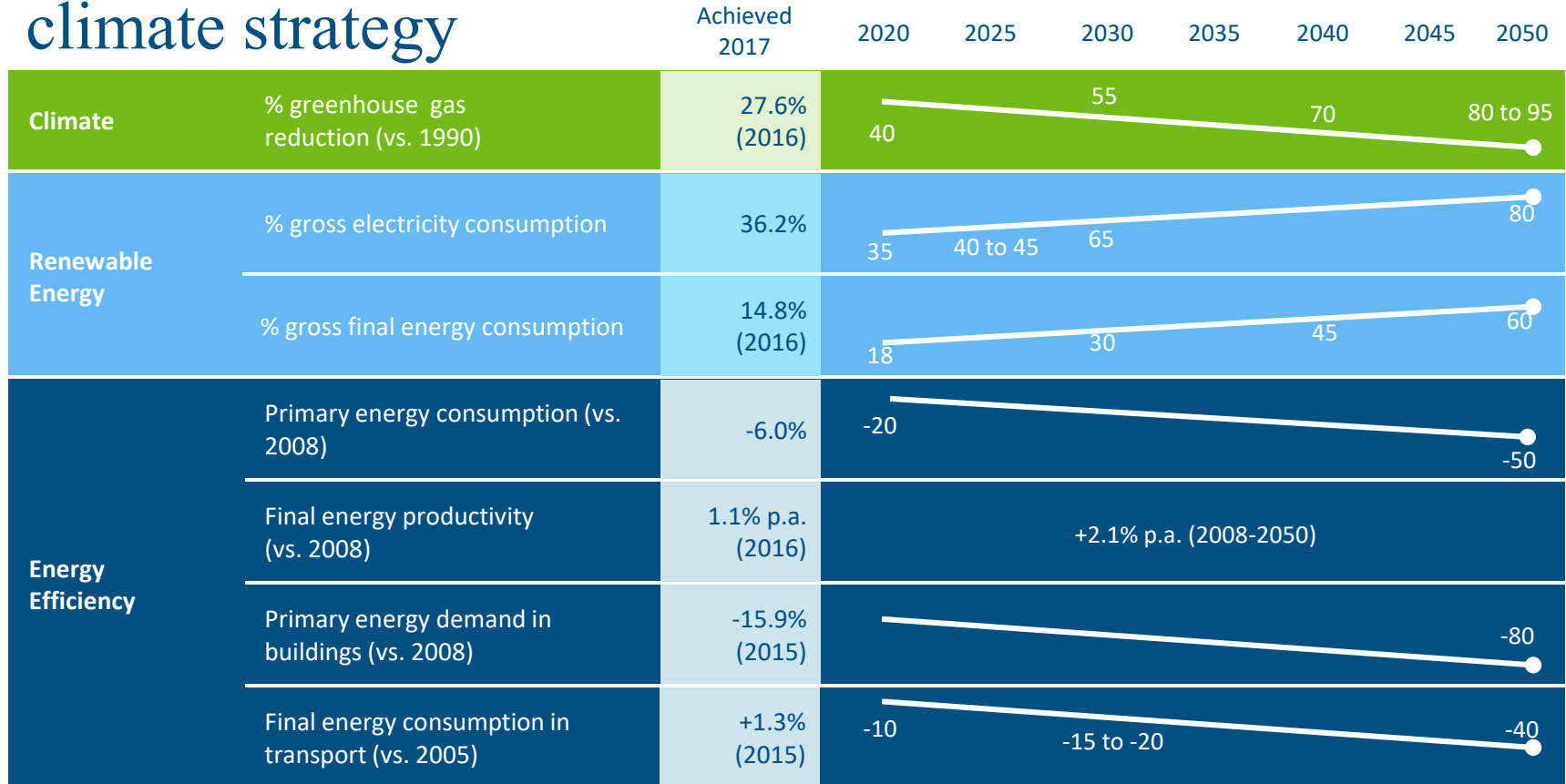


Supporting fields of action

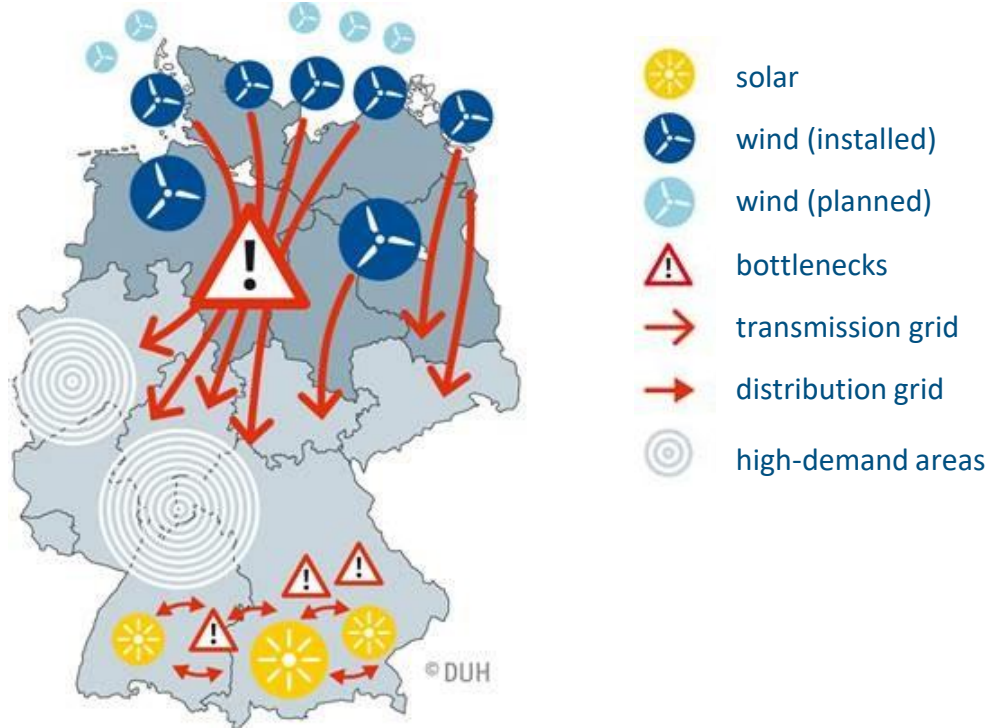
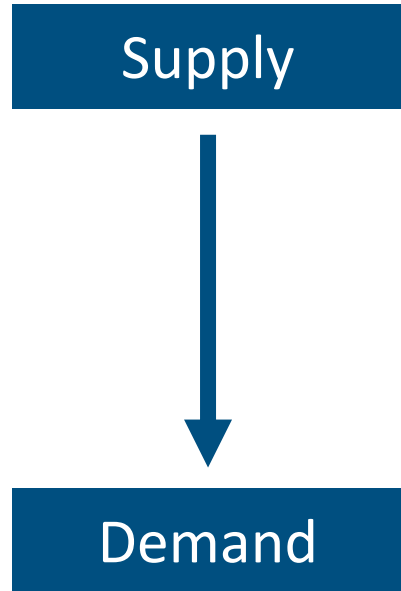


Source: BMWi

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



New grid connections linking North and South



Source: DUH 2011



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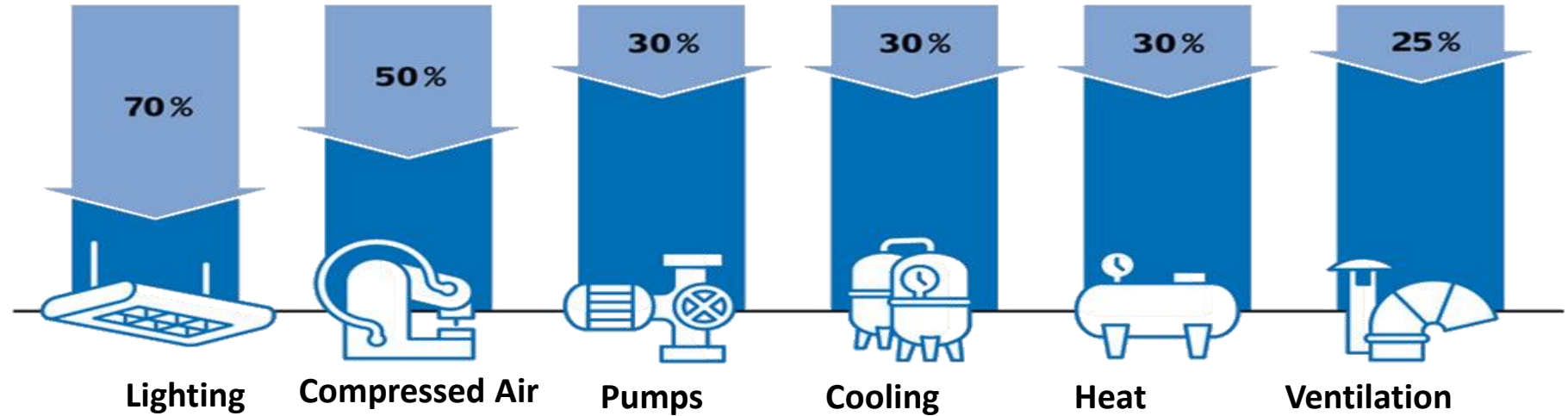


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Energy efficiency and renewable energies in Germany



Saving potentials in industry and commerce



Source: Deutsche Energie-Agentur (dena)

Industrial efficiency: some barriers still inhibit economically viable energy efficiency measures

Barriers



- Amortisation requirements
- Operational write-offs
- Financing
- Upfront investment
- Lack of information and time

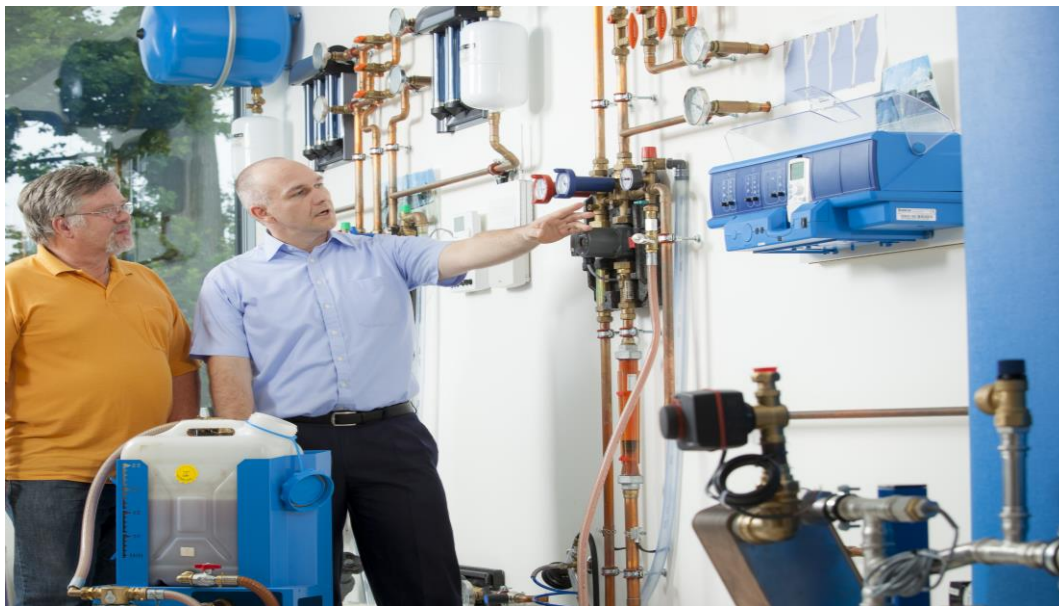
Measures



- KfW loans
- Grants for cross-cutting technologies and energy-efficient production processes
- Competitive tendering
- Energy audits
- Energy management systems
- Energy efficiency networks

Source: Fraunhofer ISI, IREES and Hassan 2013

Energy efficiency networks allow for goal-oriented, non-bureaucratic exchange between companies



- 8 to 15 companies commit to working together to increase their energy efficiency over two to three years
- An energy consultant (internal or external) estimates the energy saving potential
- Companies set energy saving targets individually
- Regular exchange to discuss best practices and key issues
- **+150 networks established so far (as of May 2018)**

Source: Fotoalia, Energie und Technik 2015



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The Initiative „energy solutions – made in Germany“



Participating German companies

Company	Representative	Business segment
AGO Bioenergy GmbH	Mr. Günther Hein	Engineering and consultancy for innovative and efficient energy supply systems for the industry
BITZER Kühlmaschinenbau GmbH	Mr. Christopher Farquharson	Efficient refrigeration and air-conditioning
NAP Grid Connection Planning GmbH	Mr. Tobias Kamp	Planning and calculation for energy efficiency and renewable energy sources
PRE Power Recycling Energyservice GmbH	Mr. Norbert Rossow	Planning, repowering and efficiency enhancement of biogas plants

Contact

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