



Federal Ministry
for Economic Affairs
and Energy



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GLOBAL
ENERGY SOLUTIONS
MADE IN GERMANY

Energy Efficiency made in Germany – An Introduction

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20 November 2018,
Vilnius

www.german-energy-solutions.de



Facilitator





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Germany's *Energiewende*

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

Environmentally

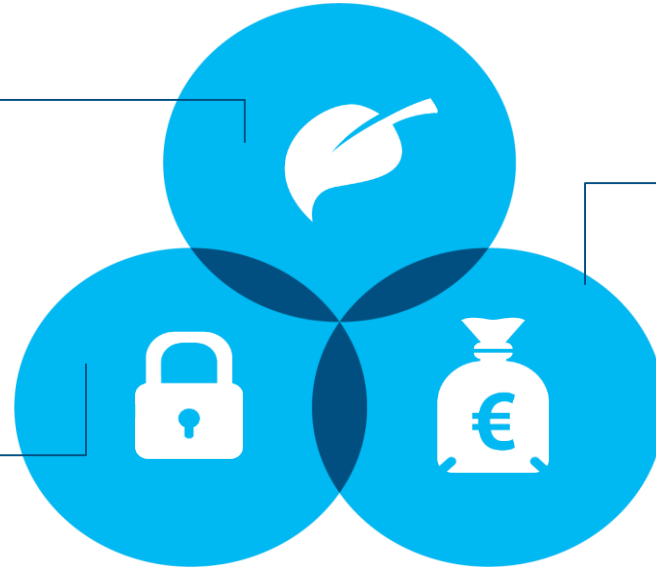
sound

Secure and

reliable

Affordable and

cost-effective



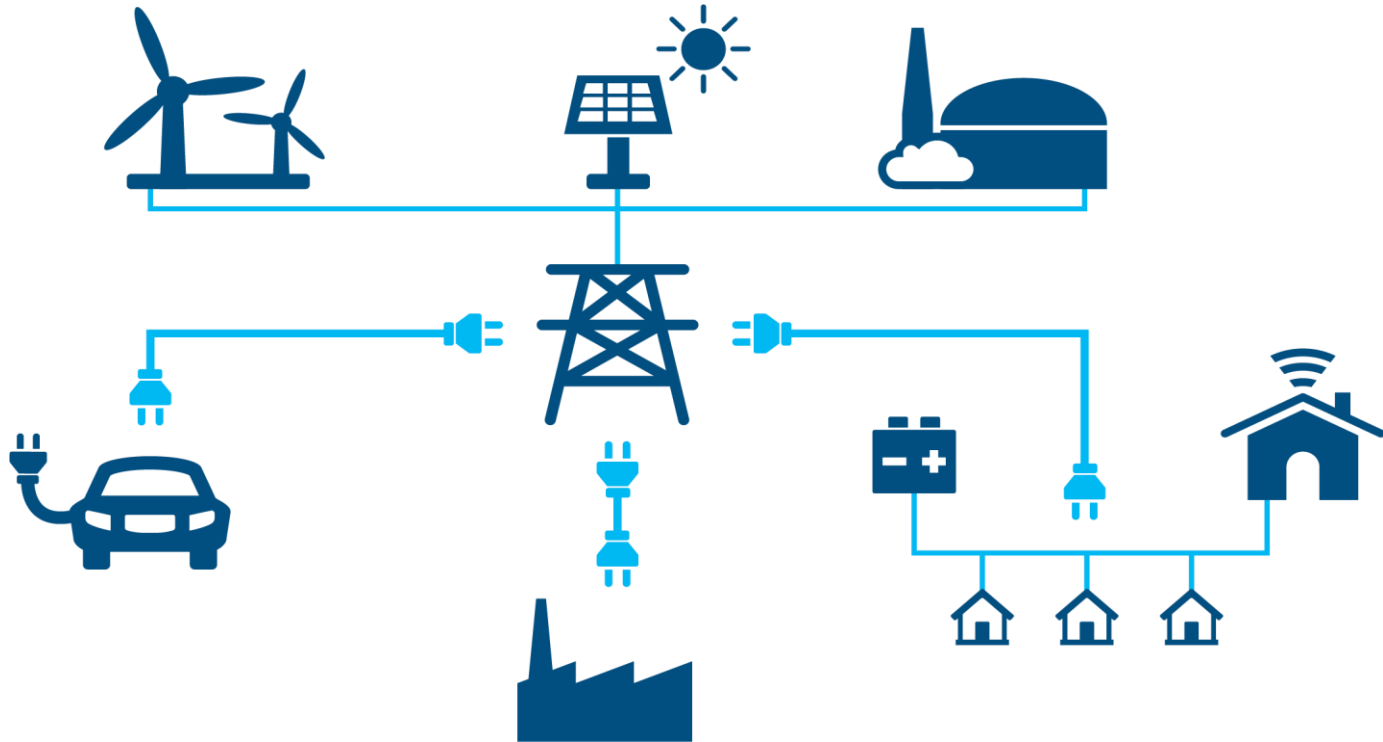
Five reasons for the *Energiewende*

- 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.

Decarbonising our energy systems leads to an increased electrification of all sectors



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

Efficiency first



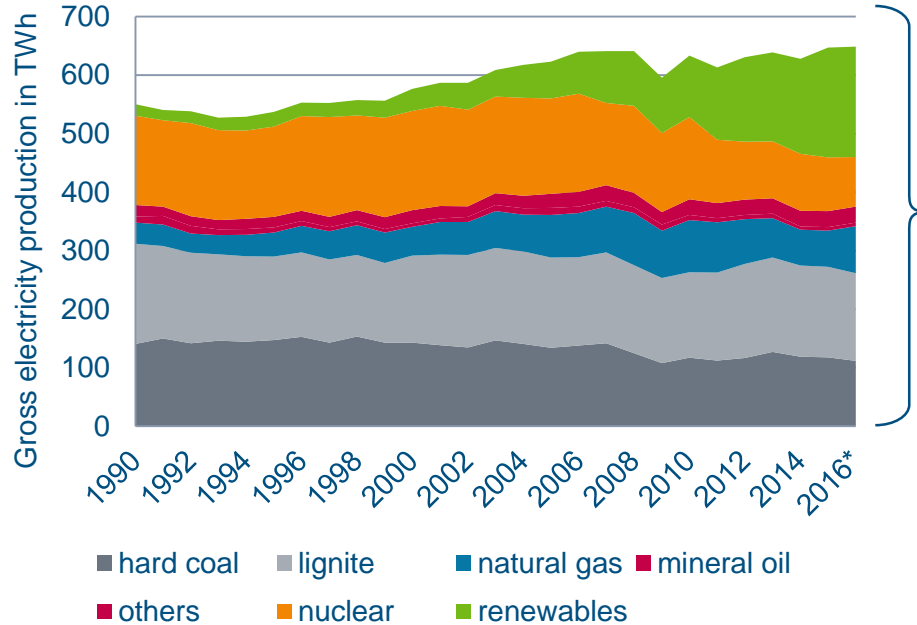
Direct use of
renewables



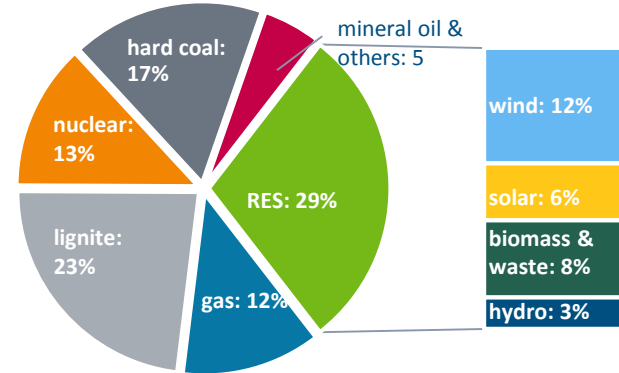
Sector coupling



Renewables are no. 1 source of electricity



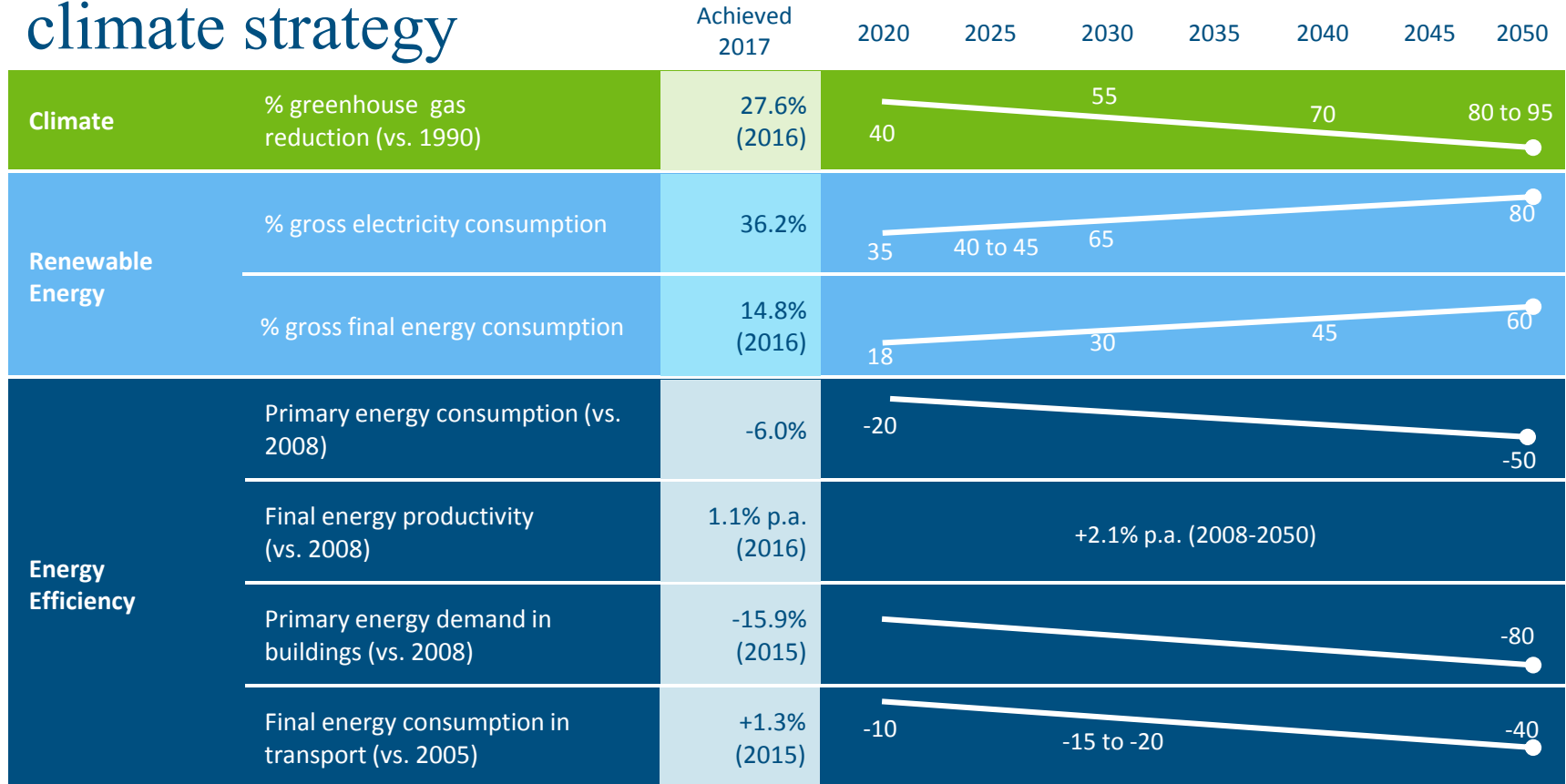
Electricity mix in 2016
(648.4 TWh in total)



* preliminary data
rounded figures

Source: Ecofys 2017 based on BMWi 2016, AGEB 2017

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





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Energy Efficiency in buildings



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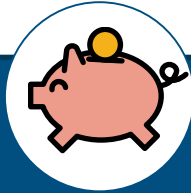


The National Action Plan on Energy Efficiency (NAPE) has almost entirely been implemented



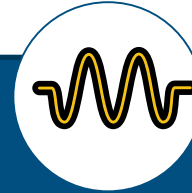
Stepping up energy efficiency in buildings

- Energy efficiency incentive programme
- Energy efficiency strategy for buildings



Energy efficiency as a return and business model

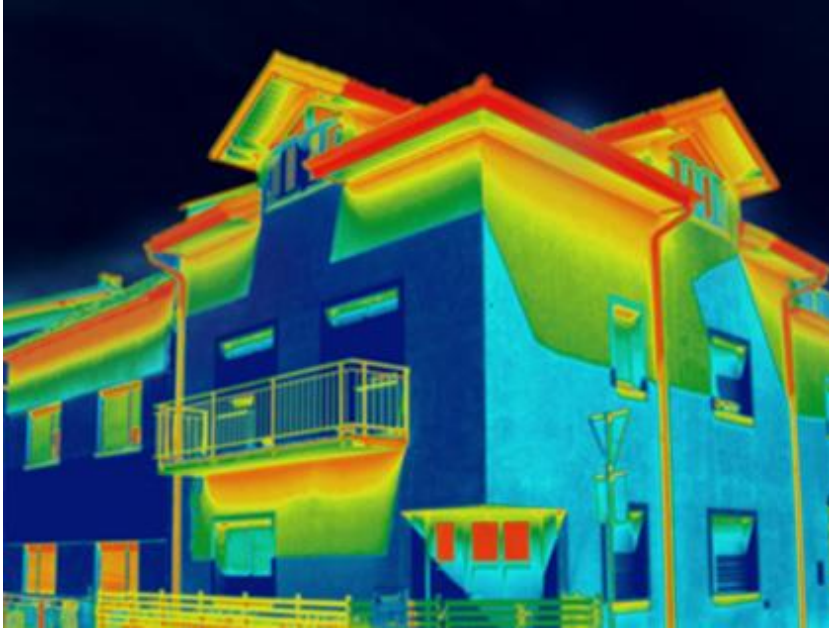
- Tender model
- Default guarantees for energy performance contracting



Individual responsibility for energy efficiency

- Energy efficiency networks
- Top-Runner strategy

Energy efficiency has the potential for house owners and tenants to save energy and expenditures



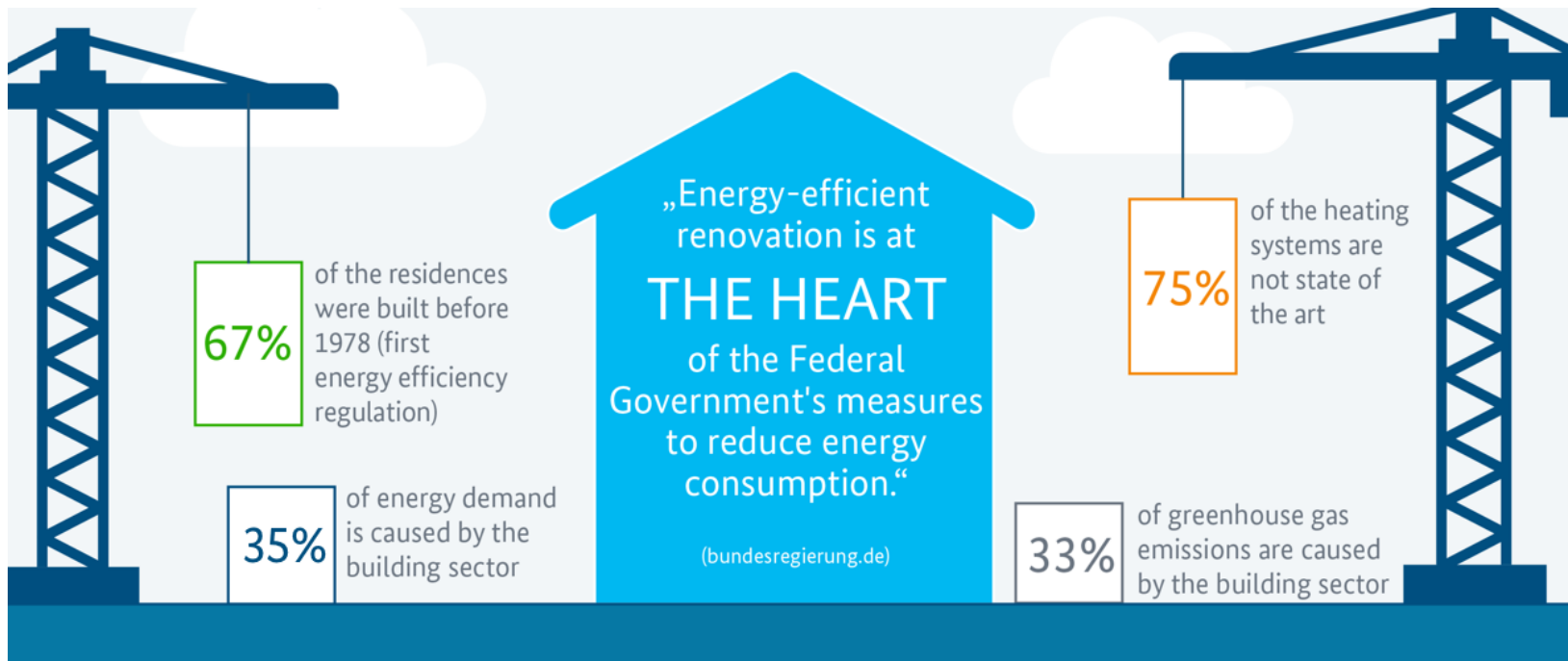
Aim:

To reduce primary energy demand in the buildings sector by around 80% by 2050

Means:

Combine and update existing measures in a consistent strategy, e.g. incentivizing through financial support and coordination through building-specific renovation roadmaps

Low-energy refurbishment of existing building stock is crucial for the success of the energy transition



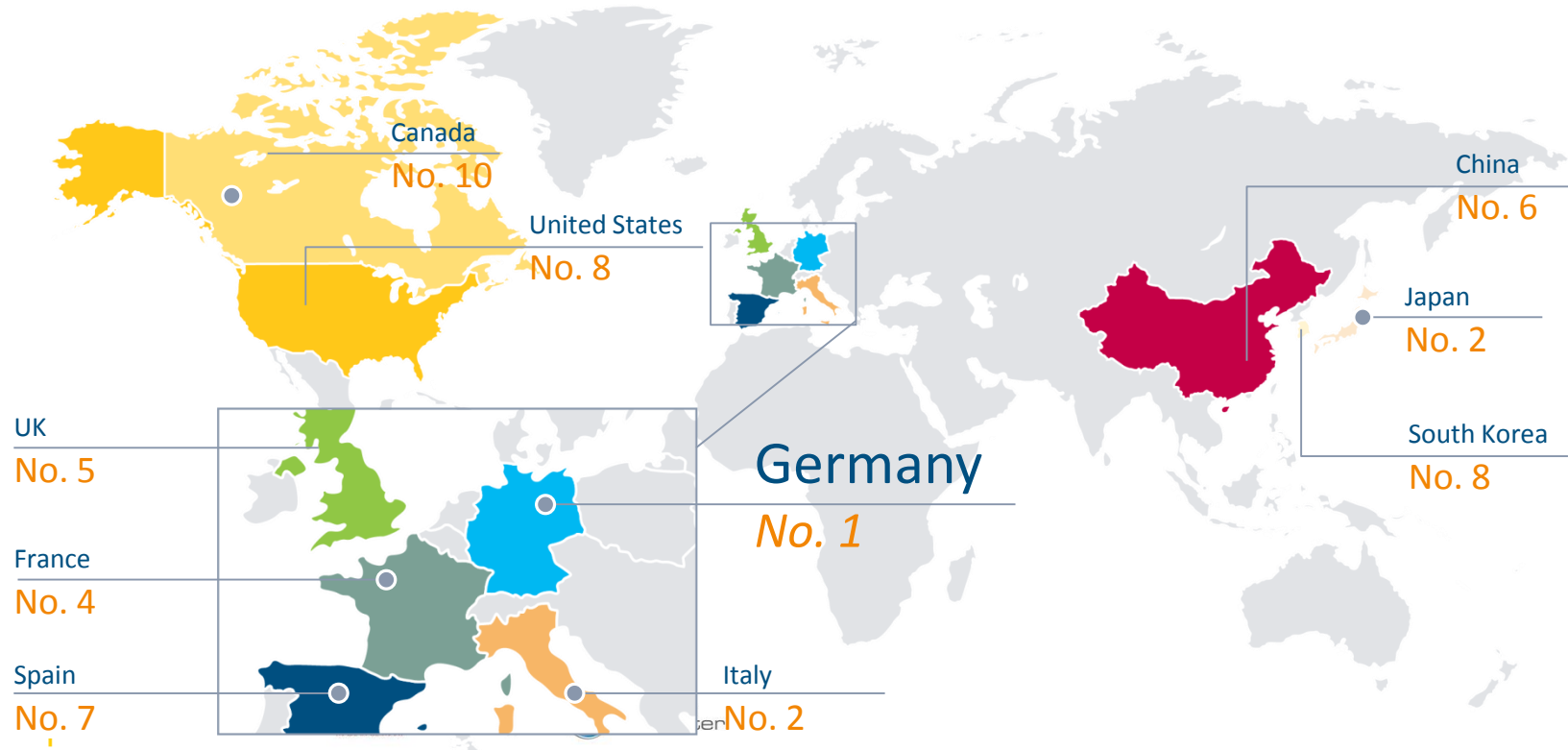
Source: Edelman.ergo, Ecofys 2016

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)**

Germany is “world champion” in energy efficiency according to ACEEE scoreboard





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The Initiative „energy solutions – made in Germany“



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“energy solutions made in Germany”

Aims of the initiative

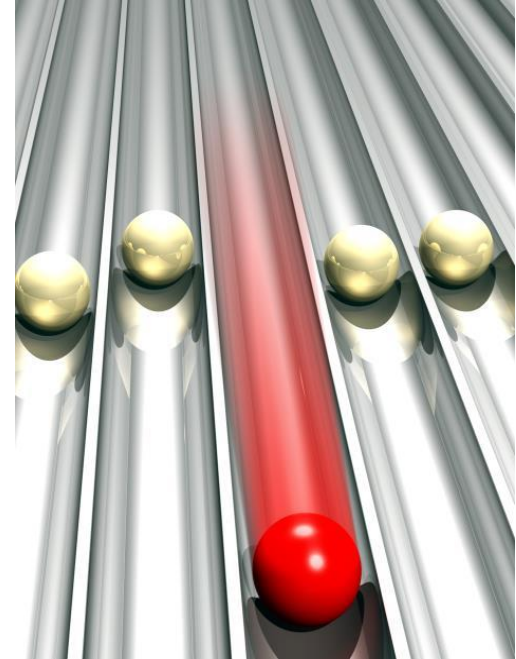
Promotion of renewable energy and energy efficient technologies

Showcase sustainable energy solutions

Implementation of projects

Know-how transfer

Contribution to international **climate protection**



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



Participating German companies

Company	Representative	Business segment
Lehmorange	Mr. Peter Gmeiner	Ecological and sustainable building materials made of clay
Kampmann GmbH	Mr. Friedhelm Koch	Green Building and complete building concepts for heating, cooling and ventilation

Participating German companies

Company	Representative	Business segment
LUNOS Lüftungstechnik GmbH für Raumlufsysteme	Mr. Rokas Petrašiūnas (Partner)	Ventilation with heat recovery, façade elements, intelligent controls
getAir GmbH & Co. KG	Ms. Ronny Kiendl-Wenig	Decentralized ventilation systems, heat recovery with noise reduction technology

Contact

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