



Embassy of the Federal Republic of Germany Washington

The German Energy Policy after COP 21

Dr. Georg Maue, Counselor Climate and Energy Policy Embassy of the Federal Republic of Germany 4645 Reservoir Road, Washington, DC 20007

Tel: +1 (202) 298 4355 Fax: +1 (202) 298 4391 E-mail: wi-<u>6@wash.diplo.de</u> 16-02-10

Energiewende targets until 2050

and progress made so far



Germany has set ambitious targets in all sectors

Where do we stand:

Share of renewables is growing in all sectors, but fastest in electricity.



The renewables share in electricity production tripled within ten years. RE are now biggest source of electricity





The Energiewende means fundamentally changing the power system



Implementation of the most important projects



Energiewende is planned and implementation is (widely) on track.

The Challenge No. 1:

German greenhouse gas emissions

Reduced emissions by the energy industry and the mild winter lead to a major decline in greenhouse gas emissions 2014. However, there is still a lot to do in order to reach the 2020 climate target.





UBA 2014, own calculations, *preliminary, **own estimates

Challenge No. 2:

Saving potential of buildings



The Energiewende can only be successful if existing buildings are included.

Challenge No.3: New (and smart) Infrastructure

2013 Network Development Plan led by Federal Network Agency

 Identified need for over 3800 km of new transmission (HVDC)
Financing mechanisms in

- development
- Grid Expansion Acceleration Act (NABEG)
- Additional efforts on energy storage:
 - Pumped hydro
 - Power to gas
 - EU electricity grid interconnection
 - Research funding
- Smart Grid and E-Energy pilot communities
- Demand-side management



The Challenge No.4:

No baseload capacities are needed any more – the fossil power fleet rather needs to become highly flexible



Residual load in a sample week in February 2023 in GW

