



Federal Ministry for the  
Environment, Nature Conservation  
and Nuclear Safety

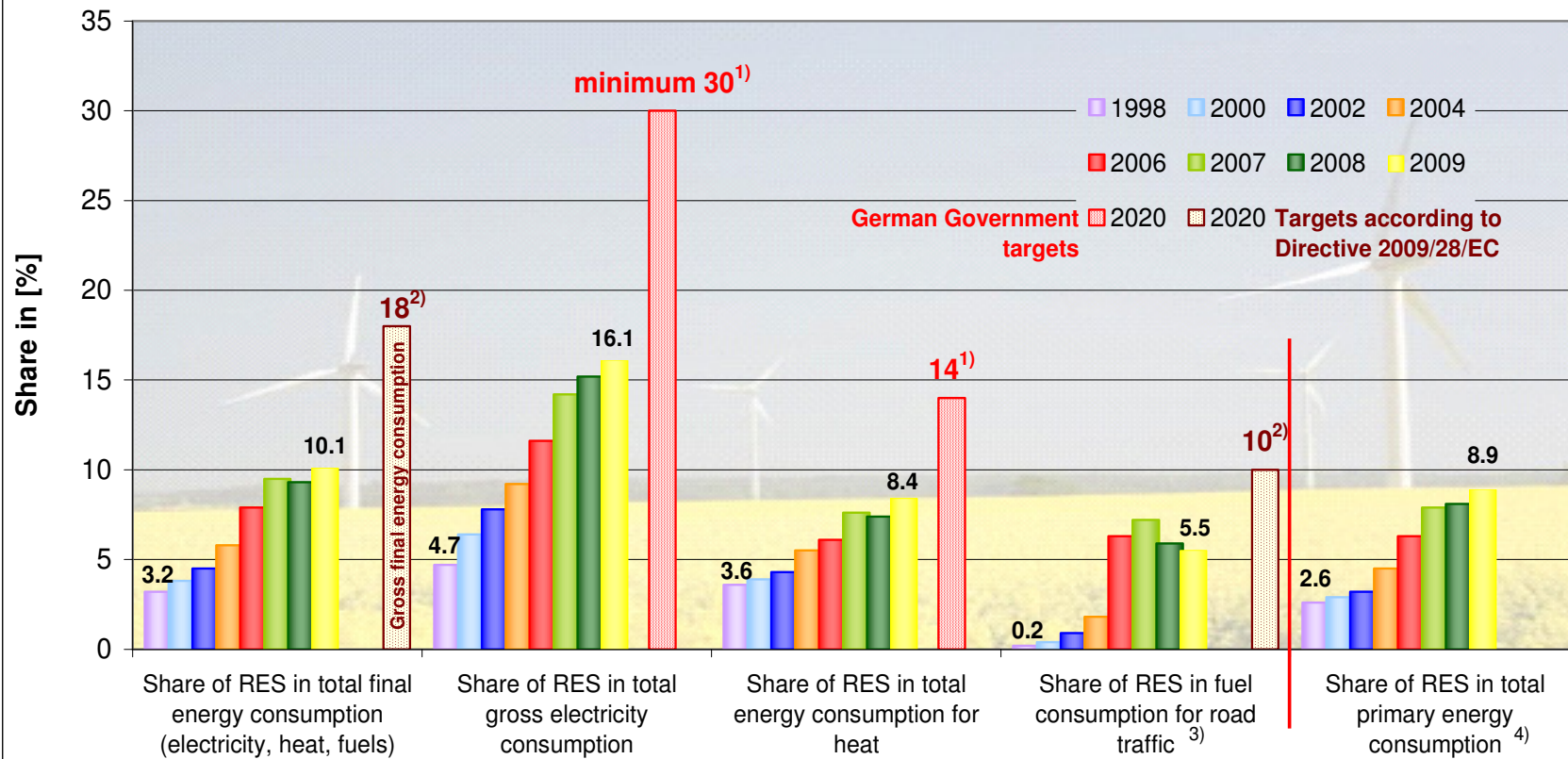
# German federal funding for research on general questions of renewable energies

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## Renewable energy sources as a share of energy supply in Germany



RES - Renewable Energy Sources; <sup>1)</sup> Sources: Share of total final energy consumption for electricity: Renewable Energy Sources Act (EEG 2009), 25.10.2008; share of final energy consumption for heat: Renewable Energies Heat Act (EEWärmeG), 7.08.2008; <sup>2)</sup> Source: EU-Directive 2009/28/EC on the promotion of the use of energy from renewable sources, target for the share of energy from renewable energy sources in gross final consumption of energy and of the final consumption of energy in transport; <sup>3)</sup> Total consumption of engine fuels, excluding fuel in air traffic; <sup>4)</sup> Source: Working Group on Energy Balances (AGEB); Source: BMU-KI III 1 according to Working Group on Renewable Energies-Statistics (AGEE-Stat); Image: BMU / Brigitte Hiss; all figures provisional



## Why do we fund research on social acceptance?

- We are facing the start of a transformation of our energy systems towards renewables; including a necessity for
  - grid expansion and reorganisation,
  - Political debate about the speed of the transformation
- Opponents to the (speed of the) transformation need to be taken seriously and integrated as far as possible – on all levels



## Why do we fund research on social acceptance?

- Many wind energy projects share the same challenges
  - Opposition comes from neighbours, community politicians, nature protection organizations
  - Many people are supportive of wind energy; ways need to be found to include them more
  - There are do's and don'ts for developers concerning communication – learn from each other
- The international comparison can provide new insights



# Selected projects funded federally

## Projects on socio-political acceptance

- Dialogue on grid expansion / transformation of energy system
- Definition of nature protection standards for renewable energies
- Acceptance of renewable energies – definitions, categories



# Selected projects funded federally

## Projects on community acceptance

- Acceptance of renewable energies in different regions
- Activation and Involvement – increasing the acceptance of renewables through participation
- Acceptance of offshore wind energy plants
- Communal wind repowering information exchange network



# Selected projects funded federally

## **Projects on market acceptance**

- Acceptance and market integration of small scale wind energy plants
- Tourists' acceptance of offshore wind energy plants
- Economic effects of promoting renewables



# Selected projects funded federally

## Projects on education and information

- Founding a network among communities with 100%-renewables-targets
- Survey on what is taught in schools about renewables
- Offer to colleges: lecture on renewables for future teachers
- School material + information brochures on renewable energy
- Conferences on education, jobs etc. in the field
- Support for Agency for Renewable Energies
- websites, e.g. [www.erneuerbare-energien.de](http://www.erneuerbare-energien.de)





## Selected recommendations

- In general change is not always welcome – create chances for and grant influence to those affected
- Grid expansion and reorganisation: Opposition is to be expected -> integrate people as early as possible
- Networking is needed – within countries, but also internationally
- Strategic and integrated cooperation between politics, research, industry/economy necessary
- Establish structures that are promoting energy sustainability on different administrative levels
- Transparency and fairness are elementary criteria for the planning and implementation process



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# Thank you!

Bundesministerium für Umwelt, Naturschutz und Reaktorsicherheit  
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