Federal Ministry for the
Environment, Nature Conservation
and Nuclear Safety

Grid Development: German Strategy

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Federal Ministry for Environment,

Nature Conservation and Nuclear Safety

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Energy Concept at a Glance (2011)

- Electricity generation in **nuclear power plants** will be phased out by the end of 2022.
- **RES** will constitute the central component of the energy supply.
- **RES' share of power generation** shall rise from 20% of power consumption to at least 35% in 2020.
- 25,000 MW **Offshore Wind** shall be installed by 2030.
- **Electricity consumption** shall be reduced by 10% by 2020.
- **Cross-border electricity trade** shall be intensified

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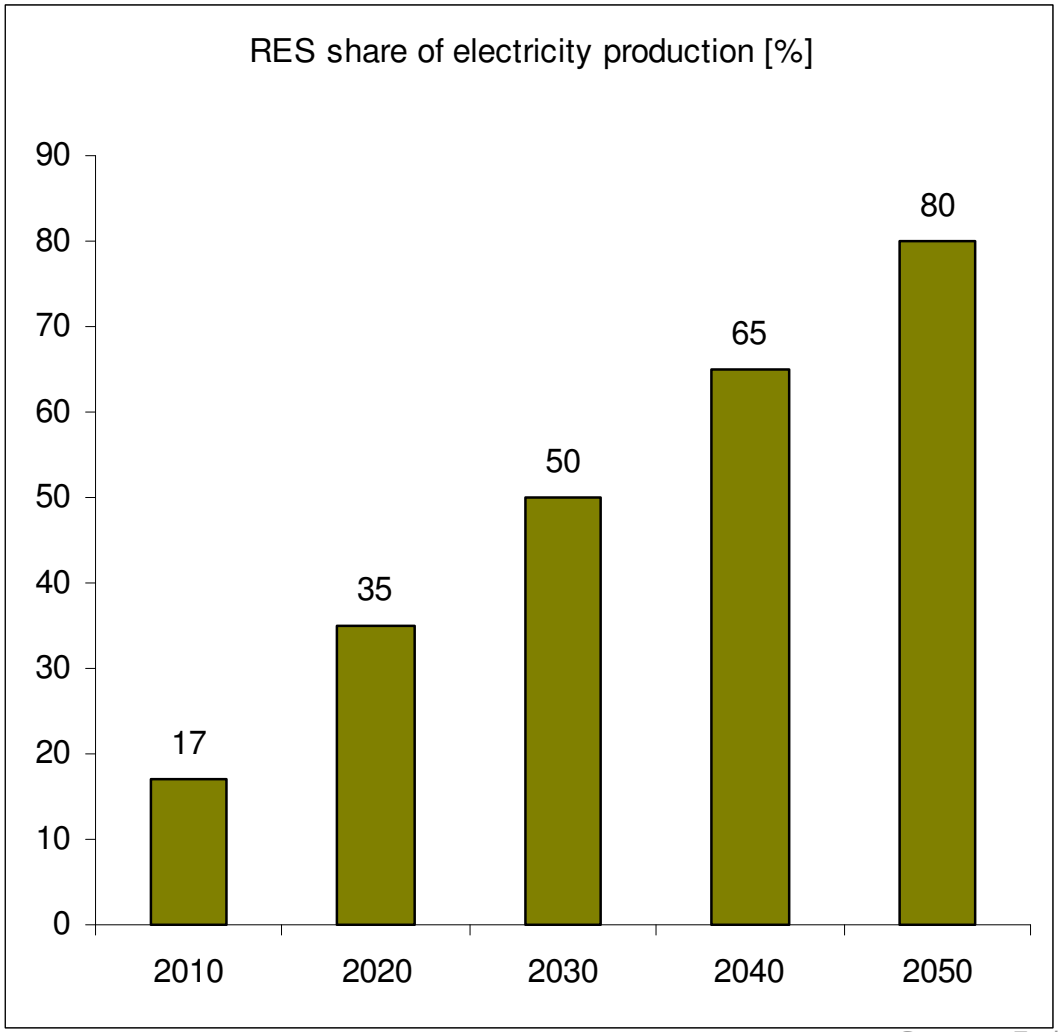
Development Path RES



Source: Federal Government (energy concept), 2010

Grid Development

The implementation of the Energy Concept requires grid development but

- How big is the **development need** exactly? (dena Grid study II: 3,600 km ; consentec study: 500 km!)
- **Which projects** should have priority? With which technology? (underground cables?)
- How can planning process be optimized while ensuring a high level of **public acceptation**?
- How can **environmental impacts** be taken into account?

→ New grid planning necessary

New Grid Planning (1)

- The **Electricity Grid Expansion Act** (EnLAG, 2009) defines 24 priority projects and enables 4 underground connections → This first step was insufficient

- Summer 2011: Major legal changes
  - 1) revision of the **Energy Industry Act** (EnWG) in order to implement the third EU energy package
  - 2) adoption of **Grid Expansion Acceleration Act** (NABEG) in order to simplify and accelerate the planning procedures for national and cross-border projects while ensuring a high level of public consultation (increased acceptation)

New Grid Planning (2)

- Result: Introduction of a **10-year national grid development plan (NGDP)** as a basis for a **Federal Requirement Plan** (legal act)
- The NGDP will evaluate the need for new transport lines for the next decades considering **new technologies** (e.g. high-temperature resistant overhead conductors)
- **Environmental impacts** are assessed during the whole process

New Grid Planning (3)

Main changes:

- **Public-private planning**
- **Yearly, systematic and national planning** with middle run perspective
- **Broad public consultation** at an early stage, access to detailed grid data
- **Acceleration of planning procedure** (definition of priority projects, no additional planning procedure for these projects)
- **Transfer of competencies** to the federal level (Federal Network Agency) for the planning procedure

Next Steps

- 3 June 2012: Submission draft NGDP
- July 2012 : Public consultation by TSOs
- August 2012: Submission revised NGDP
- October 2012: Public consultation by Federal Network Agency
- February 2013: Draft Federal Requirement Plan by Federal Network Agency

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Merci de votre attention!

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