



## Press release

Berlin, 17.07.2013

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### 2013 GRID DEVELOPMENT PLAN

- **Transmission system operators submit second draft to Federal Network Agency**
- **Results of public consultation incorporated**

On 17.07.2013, the transmission system operators, 50Hertz, Amprion, TenneT and TransnetBW, submitted the second draft of the Grid Development Plan (GDP) to the Federal Network Agency and published it at [www.netzentwicklungsplan.de](http://www.netzentwicklungsplan.de).

The first draft of the 2013 GDP together with the first draft of the offshore grid development plan (O-GDP) was made available for consultation between 02.03 and 14.04.2013. In total, 502 comments were received, of which 466 related to the GDP and 36 to the OGD. Of the 466 comments relating to the GDP, 383 were submitted by private individuals and 83 by institutions. The majority of the comments relate to the specific transmission line routes. In second place are comments on matters relating to nature and environmental protection and to electrical and magnetic fields/EMF, followed by contributions on the network planning methodology and implementation, and the production of the GDP.

Contributions from the consultation were categorised and checked by the transmission system operators. Based on the comments, the transmission system operators then revised the first draft of the GDP and added more detailed explanations and illustrations. Among other things, explanations relating to the determination of the grid connection points, the prospects for improving the methodology of regionalising renewable energies, and planning options in accordance with the NOVA principle have been added.

#### Results of the GDP

The analyses of the 2013 GDP substantially confirm the results of the 2012 GDP. Additional measures are necessary compared with the 2012 GDP in order to ensure the required expansion for the calculated transmission requirements in accordance with applicable law. The three main factors which affect the transmission requirements compared with the 2012 GDP and therefore the grid development requirement in the 2013 GDP are:

- Increase in the generation capacity of the offshore wind energy system by 1.1 GW
- Increase in the generation capacity of the onshore wind energy system in the north of Germany by 1.8 GW
- Reduction of unwanted power flows via Poland, the Czech Republic and Austria by 2 GW

As a result of these shifts, a total additional power of around 5 GW needs to be transmitted within Germany in the north-south direction. The focus continues to be on high-power north-south connections.

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Grid enhancements and optimisation on existing routes over a length of 4,900 km are required, of which 3,400 km are new developments on existing routes. The grid expansion requirements include 1,500 km of AC transmission lines and 2,100 km of corridors for high-voltage DC transmission lines. The four DC transmission corridors in the north-south direction have a total transmission capacity of 12 GW. Changeover from AC to DC operation is planned over a distance of around 300 km. The total investment for the expansion of the transport grid in the next ten years is approx. 22 billion euros. Differences in the length details between the first and second draft of the 2013 GDP are due to continuous optimisation of the detailed technical plan.

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### **Next steps**

The Federal Network Agency will check the second drafts of the GDP and the O-GDP and carry out a strategic environmental audit. The results will be documented and published in an environmental report. On completion of the checks, the GDP, the O-GDP and environmental report will be published by the Federal Network Agency for the third and final consultation.

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