

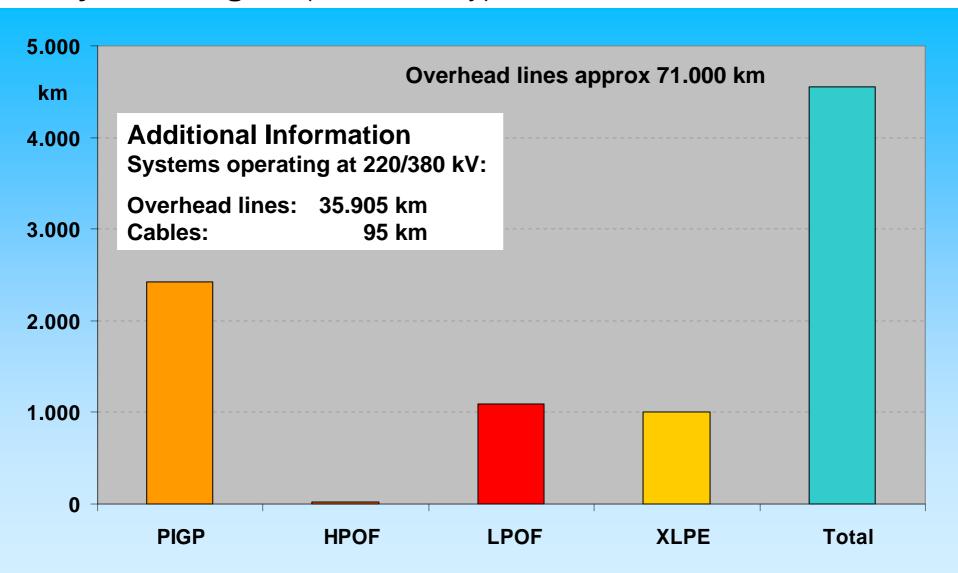
Achievement and experience in service of long length HV and EHV electrical links by insulated power cables in the world Information from Germany

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Variety of 110 kV cables installed in Germany; System lengths (Utilities only)





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Existing HV and EHV Utility Networks in Germany as of January 2007

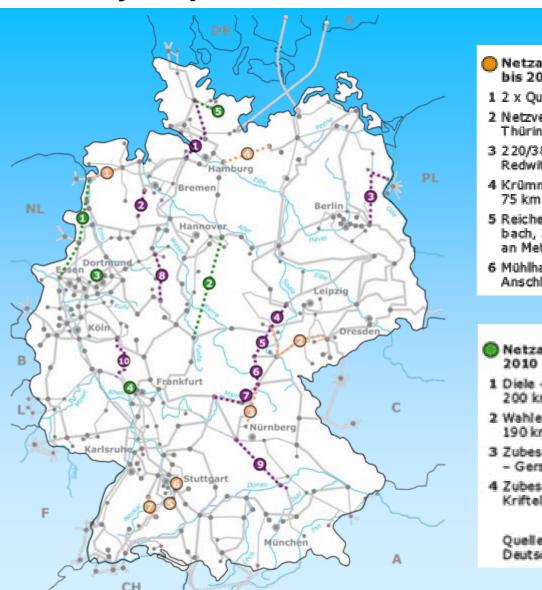




Source: VDN

Extension of the HV and EHV Network in Germany as planned in 2007 until 2015





- Netzausbau bis 2007
- 1 2 x Ouerregler in Diele
- 2 Netzverstärkung Thüringen
- 3 220/380-kV-Umstellung Redwitz - Kriegenbrunn
- 4 Krümmel Görries,
- 5 Reicheneck Rommelsbach, 380 kV-Anschluss an Metzingen
- 6 Mühlhausen Neckarrems. Anschluss an 380 kV
-) Netzausbau 2010 bis 2015
- 1 Diele Niederrhein. 200 km
- 2 Wahle Mecklar, 190 km
- 3 Zubesellung Bergkamen Gersteinwerk
- 4 Zubeseilung Kriftel - Punkt Eschborn

Quelle: VDN. Deutsche Energie-Agentur

- Netzausbau 2007 bis 2010
- Audorf Dollern, 110 km
- 2 Ganderkesee - Wehrendorf, 80 km
- 3 Neuenhagen - Bertikow/Vierraden, 110 km
- 4 Lauchstädt Vieselbach. 80 km
- 5 Vieselbach Altenfeld, 80 km
- 6 Altenfeld Redwitz. 60 km
- 7 2 20/380-kV-Umstellung Redwitz
 - Grafenrheinfeld
- 8 Zubesellung Bechterdissen-Elsen Twistetal
- 9 2 20/3 80-kV-Umstellung Irsching - Raitersaich

Source: VDN

400 kV AC cable link of 180 km in Germany: Outcome of an quick estimate



Total cost approx. 620 Mio €

DC-System: approx. ½ AC System

S_n: 1.700 MVA

 P_v : 190 kW at S_n

S_r: 3.771 MVAr

