

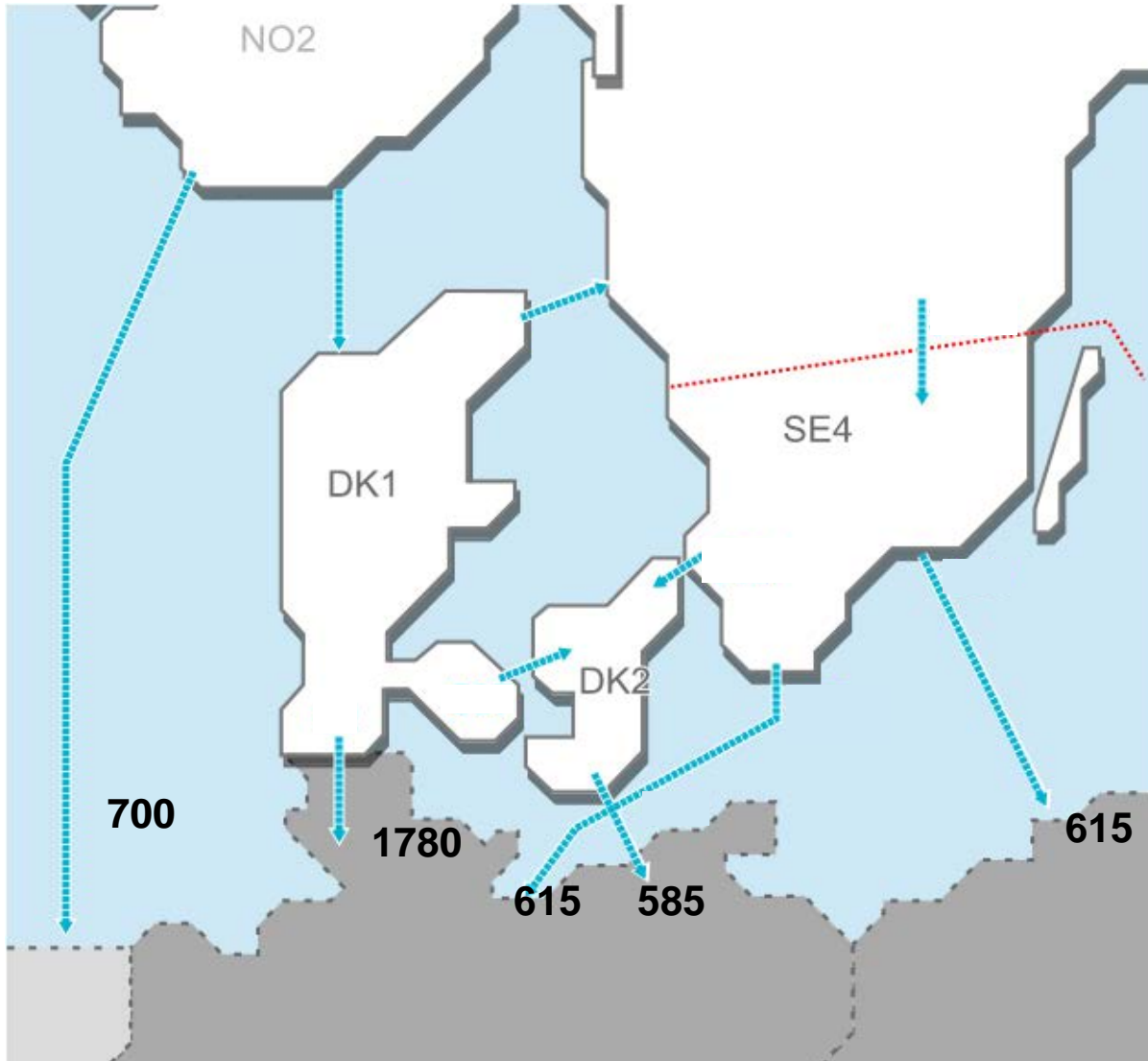


Increased German-Nordic integration of power systems requires a strong power grid in Germany

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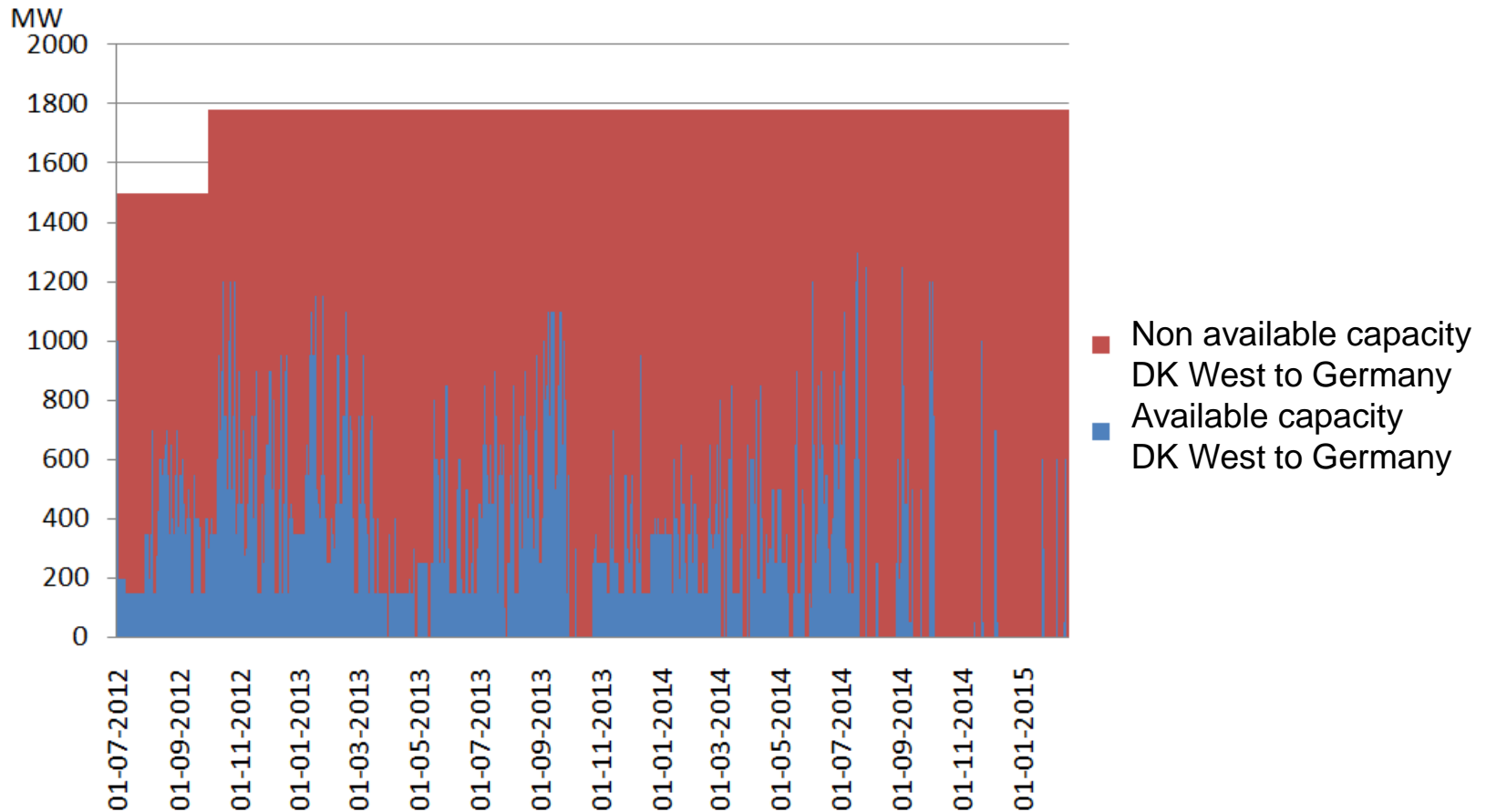
The DK1-DE interconnector is the backbone of the Nordic-German interconnection and will be for years



- The DK1-DE interconnector constitutes 40% of the interconnection from the Nordics to continental Europe
- New sea cables are years away:
 - DK-NL 2019
 - NO-DE 2020
 - NO-UK 2020+?
 - DK-UK 2020+?

The DK1-DE interconnector is practically non-existing due to curtailment related to internal German congestion

Available and non available grid capacity from DK West and Germany July 2012 to February 2015



Kilde: Energinet.dk

There seem to be few incentives to reduce this practice of curtailment on interconnectors



- The Nordic cohesion with Germany and Continental Europe seems very dependent on the internal German grid reinforcement
- Need for an increased Nordic-German dialogue on this
- Baake declaration hopefully a good start:
 - 12 electrical neighbours
 - "We will not restrict the cross-border electricity exchange"

Even with new interconnectors towards UK and NL, the Nordics will remain very dependent on Germany's grid

Abbildung 27: Szenario B 2024*/alle errechneten Leitungsprojekte



- New interconnectors from DK, NO and SE will all be routed to possibly congested areas of northern Germany
- Not all north/south interconnectors in the German grid development plan are (yet) approved by the regulator



Questions