Case Study
German Federal Requirements Plan 2015 for the Energy Transmission Grid

Andrea Abu Salah, Federal Network Agency, Germany
Working Group on the Espoo Convention and the SEA Protocol
Geneva, May 2018
Background: Energy transition

Wind offshore

2015: 3,4 GW
Target for 2030: 11,6 GW *

Wind onshore

2015: 41,2 GW
Target for 2030: 17,3 GW *

Solar energy

2015: 39,3 GW
Target for 2030: 27 GW *

Nuclear power plants

Planned shut-down

Shut-down

© Bundesnetzagentur
Five steps of grid development

- Scenario framework
- Network Development Plans
- Federal Requirements Plan
- Federal Sectoral Planning
- Planning Approval

<table>
<thead>
<tr>
<th>Needs assessment</th>
<th>Projects</th>
</tr>
</thead>
<tbody>
<tr>
<td>Which development path?</td>
<td>Which projects?</td>
</tr>
<tr>
<td>Which expansion requirements?</td>
<td>In which corridors?</td>
</tr>
<tr>
<td>every two years</td>
<td>at least every four years</td>
</tr>
<tr>
<td></td>
<td>on application</td>
</tr>
<tr>
<td></td>
<td>on application</td>
</tr>
</tbody>
</table>

© Bundesnetzagentur
Federal Requirements Plan 2015

- Need of grid expansion calculated until 2025
- Total length approx. 5900 km
- DC-corridors: 1.500 to 2.250 km
- Partly to be build as cables
- Federal Network Agency is competent authority for 16 projects
Hierarchic Planning

Grid connection points

Route corridor

Exact route

Federal Requirements Plan Act (BBPIG)

Federal Sectoral Planning (BFP)

Planning approval Procedure (PFV)

© Bundesnetzagentur
70 individual projects

Classification of possible impacts due to likely susceptible areas

460 pages excl. annexes
Consultation process

• Consultation of the general public, NGOs and authorities

• consultation was announced in the internet at www.netzausbau.de, public notes, the newsletter and electronic media

• documents were accessible via internet and in print at the main office of the Federal Network Agency in Bonn for a period of 6 weeks

• public could react to the documents in a written form, by letter or e-mail within a period of 8 weeks in total

• several public information events took place in different cities of Germany
## Outcome of the consultation

<table>
<thead>
<tr>
<th></th>
<th>NDP 2013</th>
<th>NDP 2015</th>
</tr>
</thead>
<tbody>
<tr>
<td>Participation period</td>
<td>06.09.2012 to 02.11.2012</td>
<td>27.02.2015 to 15.05.2015</td>
</tr>
<tr>
<td>Ammount of comments</td>
<td>3.300 comments</td>
<td>more than 34.000 comments</td>
</tr>
</tbody>
</table>
Transboundary consultations

- Early information: before the start of the participation in Germany, the Federal Network Agency informed the Espoo points of contact of all neighbouring states.
- All Parties renounced both times to be notified on the NDP, therefore no further transboundary SEA steps took place.
- Notification takes place on the next planning level – the routing procedure (for example A-Nord project).
• The first Federal Requirements Plan Act was adopted in July 2013 and updated in 2015, taking into account the outcome of the participation process and the environmental report respectively.

• In September 2015 the documents were made publicly available on the website www.netzausbau.de jointly with a Summarized Statement.

• The authorities, NGO’s and stakeholders were informed individually and received the final documents in a digital or printed version, including the summary.
Thank you for your attention

Andrea Abu Salah
Federal Network Agency, Germany

Andrea.abusalah@bnetza.de