

„Kriegers Flak“ Offshore Windfarm in the German EEZ



Approval Procedures for Offshore Windfarms in German Waters

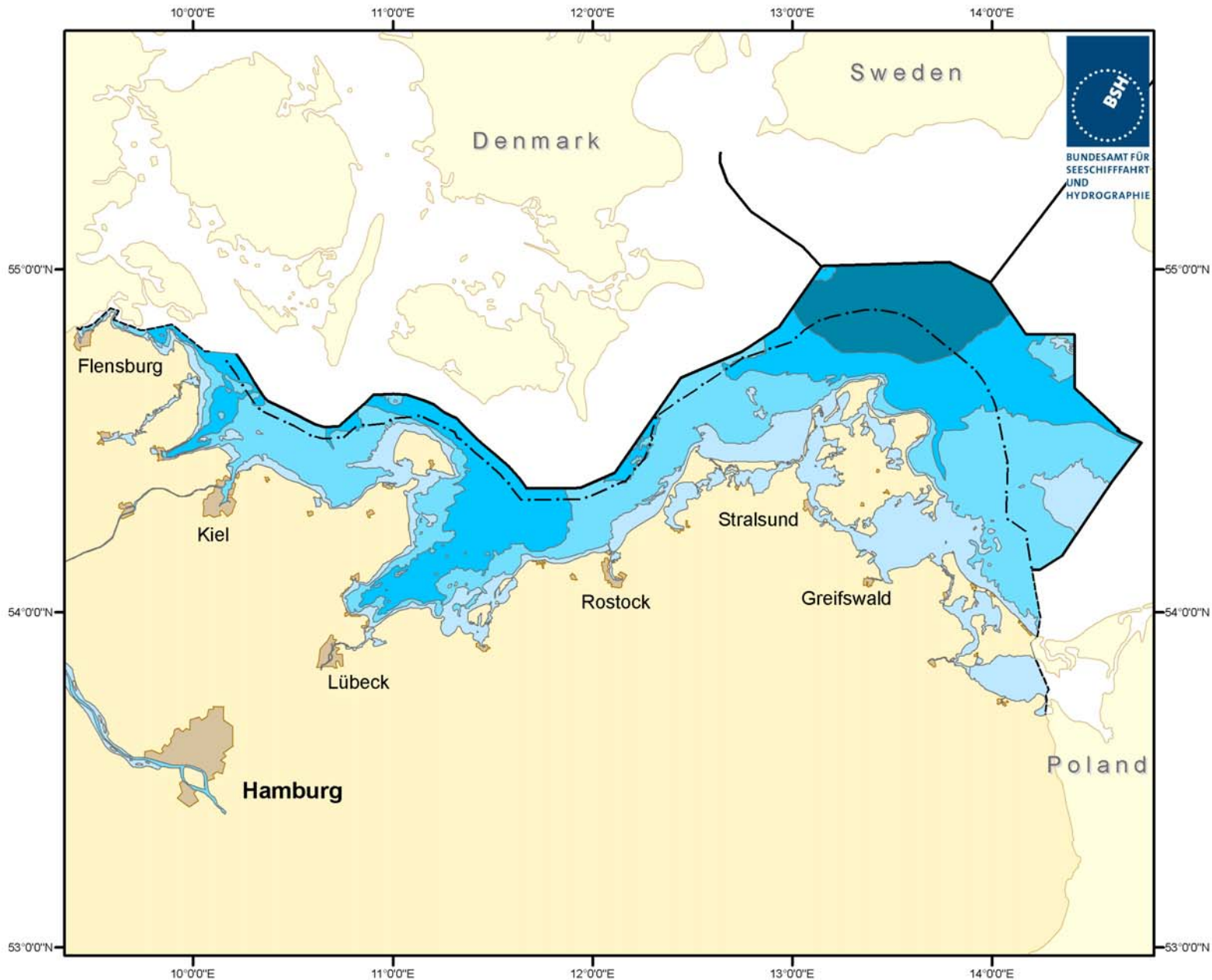
EEZ

- Competence:
Federal Government
⇒ Federal Maritime
and Hydrographic
Agency (BSH)
- Legal base: Marine
Facilities Ordinance

Territorial Waters

- Competence:
Federal State
(Mecklenburg-
Vorpommern;
Schleswig-Holstein)
- Legal base: Federal
States Law

Continental Shelf/Exclusive Economic Zone (EEZ)



Legend

Boundaries

- - - Territorial Waters
- Continental Shelf/EEZ
- · - International Boundary

Water Depths

- BoundaryZone, 0-10
- BoundaryZone, 10-20
- BoundaryZone, 20-40
- BoundaryZone, 40-50

Map projection:
Mercator (54°N), WGS 84

BSH / M5203 - 18.10.2005

Approved and refused windfarm projects (EEZ)



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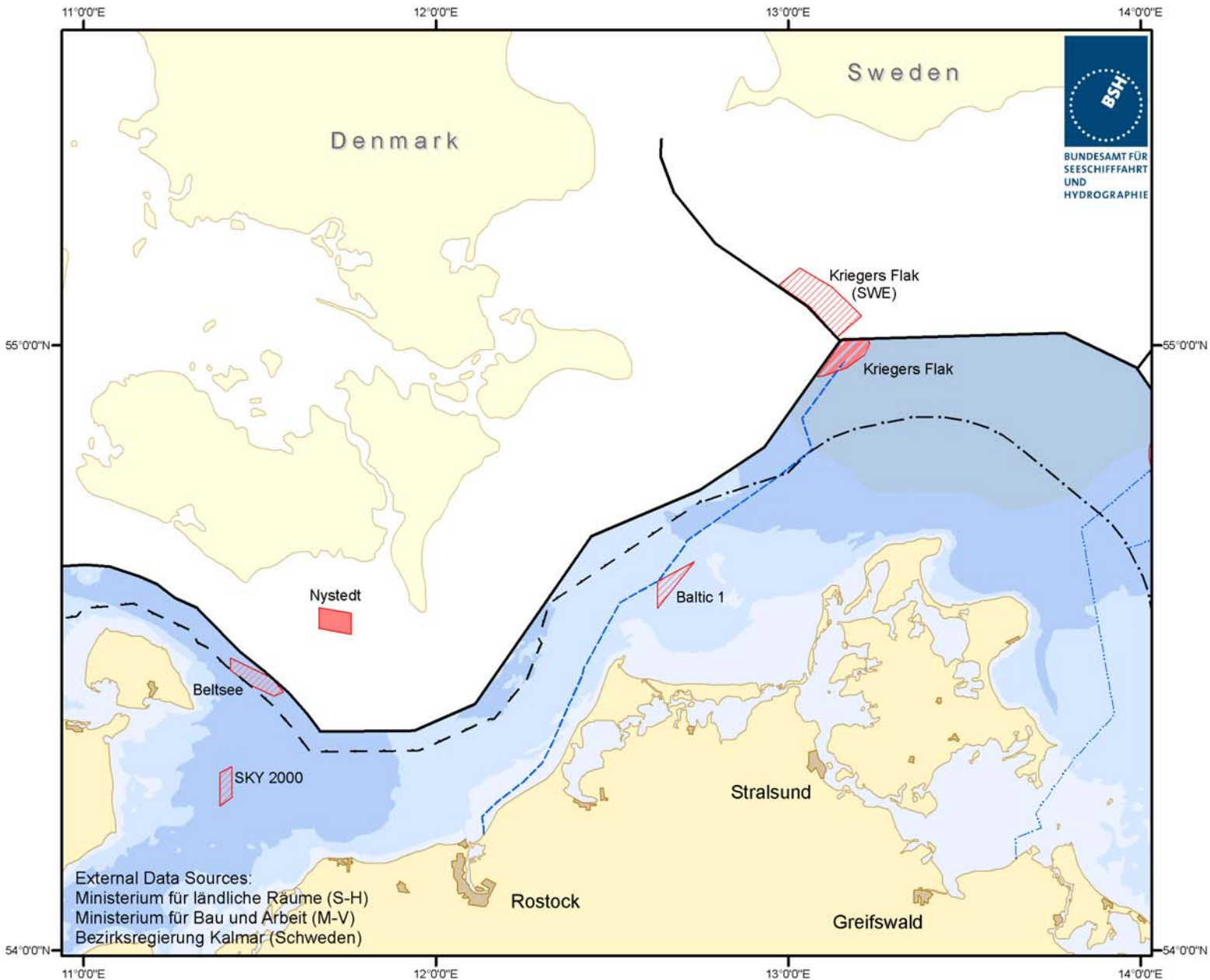
- **10 approved projects** - 9 in the North Sea, 1 in the Baltic Sea
- **2 refusals** - in the Baltic Sea (due to impairment of staging birds, SPA „Pommersche Bucht“)
- **20 applications** - 18 in the North Sea, 2 in the Baltic Sea

The Approved Project: Kriegers Flak Offshore Windfarm

- 80 wind turbines and energy cable
- Area: 25 km²
- Water Depth: 20 - 40 m
- Distance to coast: 30 km
- Distance to main shipping route:
more than 2,5 nm



Offshore Windfarm "Kriegers Flak"



Legend

Boundaries

- Continental Shelf/EEZ
- - - Territorial Waters
- - - International Boundary

Offshore Windfarms (Pilot Phase)

- in Use
- Approved
- Denied
- Planned

Cables (Offshore Windfarms)

- High Voltage Cable, in Use
- High Voltage Cable, Approved
- High Voltage Cable, Planned

Map projection:
 Mercator (54°N), WGS 84

BSH / M5203 - 18.10.2005

Approval Procedure for Offshore Windfarms in the German EEZ

- Submission of application by private company
- Refusal only because of
 - Interference with security and efficiency of navigation
 - Impairment of the marine environment
- Necessity of consent of the Waterways and Shipping Directorate
- EIA mandatory for windfarms with more than 20 turbines

Possible Transboundary Effects of Offshore Windfarms

- Impairment of **migrating birds**
- Displacement of **staging birds**
- Impairment of the **oxygen exchange process** in the Baltic Sea



Criteria for the Decision

- **Absolute criteria**

i.e.

- critical percentage of staging bird population, which may not be displaced

- **Measures of prevention and minimization**

i.e.

- submission of monitoring concept in order to learn more about migrating cranes and proposal of measures to minimize negative effects
- insulation measures to minimize noise while ramming

Security of Navigation



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Highly frequented shipping routes in the Baltic Sea

- **Absolute Criteria:**
 - minimum distance to shipping route: 2 nm
 - results of risk assessment
- **Measures** to minimize negative effects
 - equipment of windfarm with AIS
 - „Protection and Security Concept“ according to concrete traffic situation (in cooperation with the state-run traffic supervision)

Procedural Steps for „Kriegers Flak“ Offshore Wind farm

May 2001

Submission of Application Documents

Information of and comments by a small group
of affected German authorities

November 2001

Revised Application Documents

Procedural Steps for „Kriegers Flak“

December 2001

- Notification of a large group of national and regional authorities as well as organisations
- **Screening** of affected neighbouring states
⇒ Denmark and Sweden
–
- **Notification and transmittal** of information to neighbouring states; opportunity to give comments
- SEPA transmitted comments of Swedish authorities to BSH and an English summary of these
- Comments of Danish Maritime Authority and Danish Energy Authority

Procedural Steps for „Kriegers Flak“

- December 2001 Public participation in Germany; no public participation in neighbouring countries
- February 2002 **Scoping Conference** with all authorities and organisations involved in the procedure
- Affected neighbouring states not represented
- March 2002 Start of **monitoring** of the marine environment

Procedural Steps for „Kriegers Flak“

November 2003

Submission of EIA Documentation and mandatory Ship Collision Risk Assessment

January 2004

Transmittal of documents to and comments of all involved authorities and organisations

Neighbouring states: Sweden and Denmark received documents in English and a nontechnical summary in Swedish/Danish

Procedural Steps for „Kriegers Flak“

January 2004

Public Participation

- Germany (2nd round): Publication in two newspapers and in the „Notices to Mariners“, availability of the documents at BSH, opportunity for comments
- Sweden: Press release published on Internet page of SEPA, availability of the documents at SEPA, comments can be directed to BSH
- Denmark: ?

Procedural Steps for „Kriegers Flak“

May 2004

EIA Hearing

- Discussions of comments on the EIA-Documents and the Collision Risk Assessment
- Sweden and Denmark invited
- Participation of the Swedish Maritime Association

August 2004

Submission of revised application documents with new configuration according to requirements for security of navigation

Procedural Steps for „Kriegers Flak“

September 2004

Hearing on the amended application documents

- Sweden and Denmark invited
- Participation of Swedish Maritime Authority and Danish Maritime Authority

March 2005

Consent of Waterways and Shipping Directorate concerning safety and efficiency of navigation

Procedural Steps for „Kriegers Flak“

April 2005

Approval

- Publication in two German newspapers and on the BSH homepage, document available at the BSH
- Transmittal of the document to Sweden and Denmark (full document in German, terms and conditions in English/Danish)
- Distributed by SEPA among those who have submitted comments

Further Steps for realization of „Kriegers Flak Offshore Windfarm“



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Approval for cable through territorial waters of Mecklenburg-Vorpommern

- March 2005: Spatial Planning Decision (Landesplanerische Beurteilung)
- End of 2005: Approval of project?

Thank you



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