Baltic offshore grid concept

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• Nordic & Baltic market
• Snapshot from yesterday
• Overseas trading
• Netto export: 2623 MW

SvK: https://www.svk.se/en/national-grid/the-control-room/
• **Snapshot from last week**

• **Netto import:** 1048 MW
EU - Vision:

- 80% CO2-reduction by 2050 (compared to 1990)

Denmark:

Example Sweden:

- 100% renewable electricity production 2040
- 100 TWh additional production capacity
Baltic InteGrid

Regional ambition OWF development

Regional need for electricity market integration

Meshed grid?
Radial approach

+ Business as usual

Meshed approach

+ Cost Savings
+ Environmental impact
+ RES + Market integration
− Legal & regulatory barriers
− High initial investments
− Coordination
Baltic Sea Potential

Offshore Wind in Europe 2017

- 2017: Installed Offshore Wind: ≈1.8 GW
- 2030: Economically attractive potential: 750 Twh/yr with 186 GW *

*Wind Europe June 2017

100 times installed capacity!
Baltic Sea

Installed Offshore Wind power

• 2030 Upside scenario: >9 GW
• Vision 2050: 35 GW, 145 TWh/year
Pre-feasibility Studies

2 case-studies on offshore wind farm interconnectors

1) Interconnector via OWFs between SE, PL and LT
2) Interconnector via OWFs between DE and SE

- Planned windfarms
- Up to 2045
- Scenarios
  - Radial
  - Meshed
Baltic Offshore Grid – BOG

- Concept
- Vision
- Future: 2050
- Example

- Based on study cases

Goals

- Easier to connect OWF
- Increased security of supply
- Further integration of energy markets
- OFW Cost reduction
Thank you for your attention!

For further information:

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