



Berlin, 11th of Juni 2015

# Nordic integration from the perspective of German renewables

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We are the voice of the renewable energy industry in Germany.

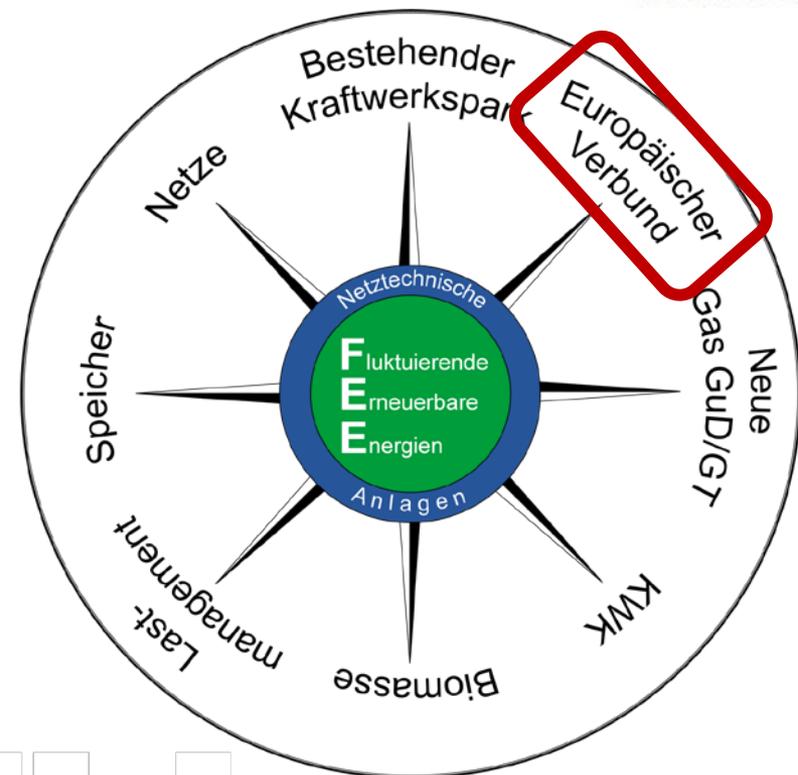
We are 26 industry associations and organizations of the hydropower, wind energy, solar energy, biomass and geothermal energy industry. We represent the interests of more than 30,000 single members, among which 5,000 companies. German renewable energy industry stands for 380.000 jobs.



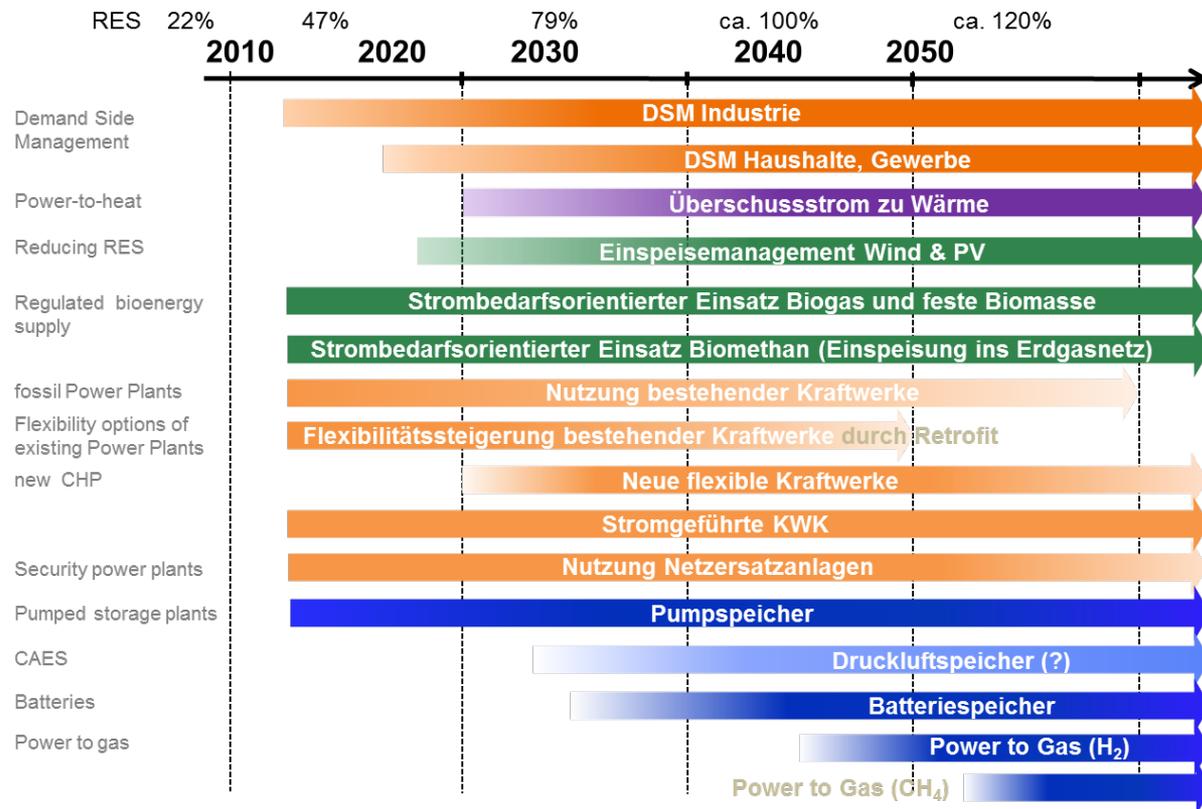
Bundschuh-Biogas-Gruppe e.V. (BBG) | Förderkreis Biogas e.V. | OWAG Ostbayerische Windanlagen GbR | Windenergie Nordeifel e.V.

## Wind and PV are holding the biggest potential of RES in Germany; that's why they are centered in our Energiewende-Strategy

- For the necessary RES-development we need secure supporting schemes because there is no options to earn the investment cost in the current market design without support
- There are a lot of flexibility options to balance the fluctuating supply with the demand
- The integration of foreign energy supply and demand is one option



## Germany has enough flexibility options to hold a high level of security of supply ...

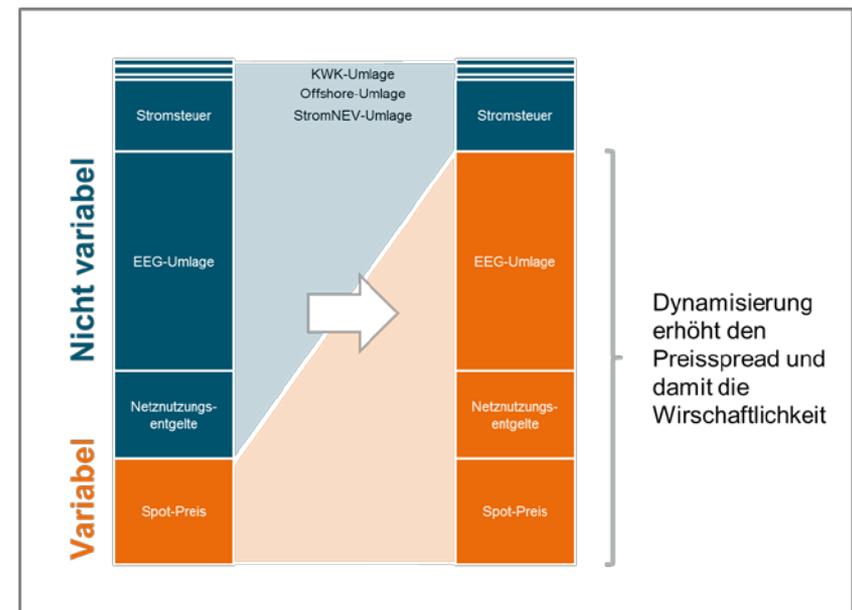


source:  
BET Aachen,  
Krzikalla,  
03/2013

... but we are looking for the most rational and efficient way to balance the fluctuating supply with the demand

## A Study by Fraunhofer IWES and Energy Brainpool showed approaches how we can flexibilise the German electricity market: “Flexibility should be made possible by promoting profitability”

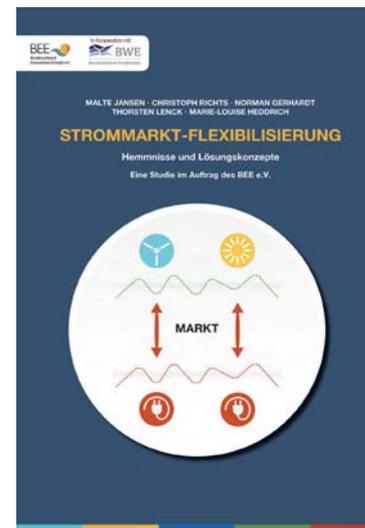
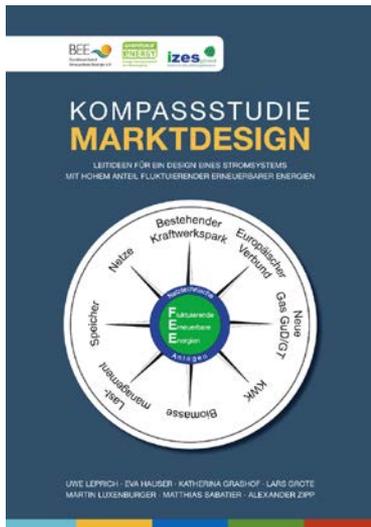
- existing regulations must be consistently applied (for example more flexible spot market, Balancing power market and harder sanctions on systematic schedule deviations)
- the must-run capacity must be reduced (for example by flexibilising the Bioenergy and CHP for the electricity market)
- Dynamising the EEG-surcharge ,CHP bonus and the grid charge
- [...]



## Our comments to the results of the “Nordic-German Integration Project

- “The electricity balance, in particular the high surplus in the Nordic countries in the High Renewable scenario, is a crucial driver for increasing the value of transmission capacity”
- “even with more integration, the Nordic countries face no significant wholesale price increase if they deploy large shares of renewables themselves”
- “From a power market and systems perspective, increased grid integration leads to an overall positive welfare effect.”
- The deployment of additional renewables in the Nordic countries and in Germany leads to a significant reduction in CO2 emissions”
  - we should use the business case
- “In Germany, electricity consumers benefit from lower prices, whereas power producers mostly incur losses”
  - for the necessary RES-development we need secure supporting schemes

## References



Thank you for your attention

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